

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

$$\text{Cost} = (\text{INITCONTTIME} * \text{CONTCOST} * \#\text{INIT} * \% \text{INITADD} * (\% \text{LEARN} + \% \text{CONT}) * (\#\text{PLANTS} * 5\%))$$

Variables:

INITCONTTIME = 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

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

PLANTS (5%) = Number of plants represented by the model output * 5% (new employers)

| Updated October 2019 | | | | | | | | | | |
|---------------------------------|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| Hard Chrome | Large | 20 | \$52.52 | 2 | 25% | 0% | 100% | 837 | 42 | \$21,991 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1,576 | 79 | \$24,832 |
| Job Shop Chrome Plater | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 403 | 20 | \$6,357 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 759 | 38 | \$11,962 |
| Captive Shop Chrome Plater | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 550 | 28 | \$8,666 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1,035 | 52 | \$16,313 |
| Job Shop Plater | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 403 | 20 | \$6,357 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 759 | 38 | \$11,962 |
| Captive Shop Plater | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 476 | 24 | \$7,508 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 897 | 45 | \$14,132 |
| Operator | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 837 | 42 | \$13,195 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1,576 | 79 | \$24,832 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 3,676 | 184 | \$52,135 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 4,120 | 206 | \$64,910 |
| GMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 2,697 | 135 | \$38,243 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 3,021 | 151 | \$47,606 |
| TIG | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 817 | 41 | \$11,584 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 915 | 46 | \$14,423 |
| | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 327 | 16 | \$4,631 |

Table 1

| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|--------------------------------|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| SAW | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 366 | 18 | \$5,763 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 81 | 4 | \$1,154 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 91 | 5 | \$1,441 |
| Plasma Welding | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 81 | 4 | \$1,154 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 91 | 5 | \$1,441 |
| Resistance Welding | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 490 | 25 | \$6,953 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 550 | 27 | \$8,660 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 18 | 1 | \$427 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 10 | 1 | \$427 |
| GMAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 25 | 1 | \$594 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 14 | 1 | \$598 |
| TIG | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 6 | 0.3 | \$142 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 3 | 0.2 | \$128 |
| FCAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 121 | 6 | \$2,850 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 68 | 3 | \$2,907 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 4 | 0 | \$95 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 2 | 0 | \$85 |
| Plasma Welding | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 2 | 0 | \$47 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 1 | 0 | \$43 |
| Oxy-fuel Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 4 | 0 | \$95 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 2 | 0 | \$85 |
| Air Carbon Arc Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 2 | 0 | \$47 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 1 | 0 | \$43 |
| Electric Torch Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 0 | 0 | \$0 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 0 | 0 | \$0 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| SAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 16 | 1 | \$380 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 9 | 0 | \$385 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 209 | 10 | \$3,128 |

Table 1

| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|--------------------------------------|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1,673 | 84 | \$26,360 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 3 | 0 | \$45 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 22 | 1 | \$348 |
| GMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 42 | 2 | \$632 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 335 | 17 | \$5,272 |
| Brazing | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 21 | 1 | \$316 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 168 | 8 | \$2,644 |
| Metallizing | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 4 | 0 | \$60 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 33 | 2 | \$522 |
| GOVERNMENT | | | | | | | | | | |
| SMAW | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 20 | 1 | \$301 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 614 | 31 | \$9,673 |
| Plasma Cutting | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 0 | 0 | \$0 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 8 | 0 | \$127 |
| GMAW | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 4 | 0 | \$60 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 123 | 6 | \$1,931 |
| Brazing | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 2 | 0 | \$30 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 61 | 3 | \$966 |
| Metallizing | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 1 | 0 | \$15 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 12 | 1 | \$190 |
| GENERAL INDUSTRY | | | | | | | | | | |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 4,929 | 246 | \$69,903 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 5,019 | 251 | \$79,079 |
| GMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 3,615 | 181 | \$51,266 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 3,680 | 184 | \$57,991 |
| TIG | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 1,095 | 55 | \$15,531 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1,115 | 56 | \$17,573 |
| SAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 438 | 22 | \$6,212 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 446 | 22 | \$7,029 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 110 | 5 | \$1,553 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 112 | 6 | \$1,757 |
| Plasma Welding | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 110 | 5 | \$1,553 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 112 | 6 | \$1,757 |

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| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|--------------------------------|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| Resistance Welding | Large | 12 | \$52.52 | 2 | 25% | 0% | 90% | 657 | 33 | \$9,318 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 669 | 33 | \$10,544 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 38 | 2 | \$902 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 22 | 1 | \$940 |
| GMAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 55 | 3 | \$1,306 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 31 | 2 | \$1,325 |
| TIG | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 13 | 1 | \$309 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 7 | 0 | \$299 |
| FCAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 259 | 13 | \$6,127 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 147 | 7 | \$6,241 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 8 | 0 | \$190 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 5 | 0 | \$214 |
| Plasma Welding | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 3 | 0 | \$71 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| Oxy-fuel Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 8 | 0 | \$190 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| Air Carbon Arc Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 3 | 0 | \$71 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 2 | 0 | \$85 |
| Electric Torch Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 0 | 0 | \$0 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 0 | 0 | \$0 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| SAW | Large | 12 | \$52.52 | 2 | 75% | 0% | 50% | 34 | 2 | \$807 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 19 | 1 | \$812 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 313 | 16 | \$4,692 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 2,368 | 118 | \$37,315 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 4 | 0 | \$60 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 31 | 2 | \$491 |
| GMAW | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 62 | 3 | \$932 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 473 | 24 | \$7,457 |
| | State | 12 | \$52.52 | 2 | 25% | 0% | 95% | 31 | 2 | \$466 |

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| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|--|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| Brazing | Local | 12 | \$52.52 | 2 | 25% | 0% | 100% | 237 | 12 | \$3,736 |
| Metallizing | Large | 12 | \$52.52 | 2 | 25% | 0% | 95% | 6 | 0 | \$90 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 47 | 2 | \$744 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| General Industry (Aerospace) | Large | 12 | \$52.52 | 2 | 25% | 0% | 25% | 50 | 2 | \$195 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 75% | 62 | 3 | \$737 |
| General Industry (Autobody) | Large | 12 | \$52.52 | 2 | 25% | 0% | 25% | 330 | 17 | \$1,301 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 75% | 1,454 | 73 | \$17,187 |
| General Industry (Coil Coating) | Large | 12 | \$52.52 | 2 | 25% | 0% | 25% | 101 | 5 | \$398 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 75% | 18 | 1 | \$217 |
| Maritime | Large | 12 | \$52.52 | 2 | 25% | 0% | 10% | 274 | 14 | \$432 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 90% | 474 | 24 | \$6,728 |
| Construction | Large | 12 | \$52.52 | 2 | 25% | 0% | 25% | 789 | 39 | \$3,110 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 50% | 4,197 | 210 | \$33,065 |
| Government | State | 12 | \$52.52 | 2 | 25% | 0% | 25% | 17 | 1 | \$67 |
| | Local | 12 | \$52.52 | 2 | 25% | 0% | 25% | 945 | 47 | \$3,723 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 0% | 100% | 2 | 0 | \$117 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 0% | 0 | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDU | | | | | | | | | | |
| ALL | Large | 20 | \$52.52 | 2 | 25% | 0% | 100% | 2 | 0 | \$44 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1 | 0 | \$13 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 3 | 0 | \$41 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 0% | 0 | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| ALL | Large | 28 | \$52.52 | 2 | 25% | 0% | 20% | 5 | 0 | \$34 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 0% | 0 | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 25% | 0% | 75% | 78 | 4 | \$924 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 75% | 123 | 6 | \$1,453 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 0% | 90% | 2 | 0 | \$126 |
| | Small | 12 | \$52.52 | 2 | 100% | 0% | 90% | 7 | 0 | \$419 |

Table 1

| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|--|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 79 | 4 | \$1,248 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 39 | 2 | \$610 |
| SECTOR 11. PLATING MIXTURE PRODUCER | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 75% | 0% | 80% | 6 | 0 | \$224 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 75% | 4 | 0 | \$140 |
| SECTOR 13. CHROMIUM METAL PRODUCER | | | | | | | | | | |
| ALL | Large | 28 | \$52.52 | 2 | 100% | 0% | 100% | 1 | 0 | \$153 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 0% | 0 | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| Alloy Stainless Steel | Large | 20 | \$52.52 | 2 | 75% | 0% | 90% | 39 | 2 | \$2,746 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 12 | 1 | \$528 |
| Carbon Steel | Large | 20 | \$52.52 | 2 | 75% | 0% | 90% | 116 | 6 | \$8,237 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 37 | 2 | \$1,554 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 33 | 2 | \$1,413 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 31 | 2 | \$1,331 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| ALL | Large | 28 | \$52.52 | 2 | 25% | 0% | 90% | 152 | 8 | \$5,035 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 90% | 111 | 6 | \$1,569 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 25% | 0% | 100% | 2 | 0 | \$39 |
| | Small | 12 | \$52.52 | 2 | 25% | 0% | 100% | 1 | 0 | \$13 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 0% | 0% | 0% | 0 | 0 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0% | 100% | 5 | 0 | \$293 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 75% | 0% | 100% | 212 | 11 | \$10,022 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 100% | 1,600 | 80 | \$75,621 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 307 | 15 | \$13,059 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 623 | 31 | \$26,502 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| General Industry | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 8 | 0 | \$329 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 24 | 1 | \$1,042 |
| | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 111 | 6 | \$4,717 |

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| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|--|-------|--------------|----------|--------|-----------|---------|--------|----------|---------------|---------------|
| Fiber, Flat and Container Glass | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 6 | 0 | \$274 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 78 | 4 | \$3,315 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 312 | 16 | \$13,259 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| Catalyst Users | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 193 | 10 | \$8,190 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 90% | 0 | 0 | \$0 |
| Chromium Catalyst Service Companies | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 25 | 1 | \$1,055 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 5 | 0 | \$201 |
| SECTOR 25. REFRACTORY BRICK PRODUCE | | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 5 | 0 | \$220 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 0 | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | 12 | \$52.52 | 2 | 75% | 0% | 100% | 143 | 7 | \$6,756 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 100% | 76 | 4 | \$3,613 |
| Maritime | Large | 12 | \$52.52 | 2 | 75% | 0% | 100% | 36 | 2 | \$1,697 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 100% | 32 | 2 | \$1,495 |
| Construction | Large | 12 | \$52.52 | 2 | 75% | 0% | 100% | 1,232 | 62 | \$58,249 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 100% | 4,932 | 247 | \$233,152 |
| Government | State | 12 | \$52.52 | 2 | 75% | 0% | 100% | 17 | 1 | \$807 |
| | Local | 12 | \$52.52 | 2 | 75% | 0% | 100% | 62 | 3 | \$2,918 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| General Industry | Large | 20 | \$52.52 | 2 | 75% | 0% | 90% | 39 | 2 | \$2,797 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 47 | 2 | \$2,014 |
| Government | State | 12 | \$52.52 | 2 | 75% | 0% | 25% | 0 | 0 | \$0 |
| | Local | 12 | \$52.52 | 2 | 75% | 0% | 90% | 24 | 1 | \$1,007 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | 28 | \$52.52 | 2 | 75% | 0% | 100% | 18 | 1 | \$1,934 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 0% | 0 | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation | Large | 12 | \$52.52 | 2 | 0% | 0% | 100% | 54 | 3 | \$0 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 100% | 247 | 12 | \$0 |
| | State | 12 | \$52.52 | 2 | 100% | 0% | 100% | 16 | 1 | \$985 |
| | Local | 12 | \$52.52 | 2 | 100% | 0% | 100% | 93 | 5 | \$5,844 |

Table 1

| | Size | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS (5%) | Item 13 Costs |
|------------------------------|-------|--------------|----------|--------|-----------|---------|--------|---------------|---------------|--------------------|
| Hazardous Waste-site Work | Large | 12 | \$52.52 | 2 | 75% | 0% | 90% | 43 | 2 | \$1,810 |
| | Small | 12 | \$52.52 | 2 | 75% | 0% | 90% | 180 | 9 | \$7,652 |
| | State | 12 | \$52.52 | 2 | 75% | 0% | 90% | 1 | 0 | \$37 |
| | Local | 12 | \$52.52 | 2 | 75% | 0% | 90% | 252 | 13 | \$10,741 |
| Refractory Brick Restoration | Large | 12 | \$52.52 | 2 | 0% | 0% | 90% | 47 | 2 | \$0 |
| | Small | 12 | \$52.52 | 2 | 0% | 0% | 90% | 185 | 9 | \$0 |
| Total | | | | | | | | 78,321 | 3,916 | \$1,493,924 |

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

Note: 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

$$\text{Cost} = (\text{SAMPCOST} * \text{JOB CAT} * \text{SHIFTS} * \text{\#SAMPS} * \text{\#INIT} * \% \text{INITADD}) * \text{\#PLANTS}$$

Variables:

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

| Updated October 2019 | | | | | | | | | | |
|---------------------------------|-------|----------|---------|--------|----------|---------|------------|-----------|----------------|---------------|
| | Size | SAMPCOST | JOB CAT | SHIFTS | \# SAMPS | \# INIT | \% INITADD | \# PLANTS | \# PLANTS (5%) | Item 13 COSTS |
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| Hard Chrome | Large | \$84 | 7 | 2 | 3 | 2 | 25% | 837 | 42 | \$73,761 |
| | Small | \$84 | 7 | 1 | 3 | 2 | 25% | 1,576 | 79 | \$69,409 |
| Job Shop Chrome Plater | Large | \$84 | 1 | 2 | 3 | 2 | 25% | 403 | 20 | \$5,077 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 759 | 38 | \$4,776 |
| Captive Shop Chrome Plater | Large | \$84 | 1 | 2 | 3 | 2 | 25% | 550 | 28 | \$6,921 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 1,035 | 52 | \$6,514 |
| Job Shop Plater | Large | \$84 | 1 | 2 | 3 | 2 | 25% | 403 | 20 | \$5,077 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 759 | 38 | \$4,776 |
| Captive Shop Plater | Large | \$84 | 1 | 2 | 3 | 2 | 25% | 476 | 24 | \$5,996 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 897 | 45 | \$5,643 |
| Operator | Large | \$84 | 1 | 2 | 3 | 2 | 25% | 837 | 42 | \$10,537 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 1,576 | 79 | \$9,916 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 3,676 | 184 | \$46,261 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 4,120 | 206 | \$25,919 |
| GMAW | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 2,697 | 135 | \$33,934 |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|------------------------|-------|----------|---------|--------|---------|--------|-----------|----------|---------------|---------------|
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 3,021 | 151 | \$19,009 |
| TIG | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 817 | 41 | \$10,279 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 915 | 46 | \$5,759 |
| SAW | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 327 | 16 | \$4,109 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 366 | 18 | \$2,301 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 81 | 4 | \$1,024 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 91 | 5 | \$575 |
| Plasma Welding | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 81 | 4 | \$1,024 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 91 | 5 | \$575 |
| Resistance Welding | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 490 | 25 | \$6,170 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 550 | 27 | \$3,458 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 18 | 1 | \$341 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 10 | 1 | \$126 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 25 | 1 | \$474 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 14 | 1 | \$177 |
| TIG | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 6 | 0.3 | \$114 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 3 | 0.2 | \$38 |
| FCAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 121 | 6 | \$2,276 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 68 | 3 | \$860 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 4 | 0.2 | \$76 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 2 | 0.1 | \$25 |
| Plasma Welding | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 2 | 0.1 | \$38 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 1 | 0.1 | \$13 |
| Oxy-fuel Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 4 | 0.2 | \$76 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 2 | 0.1 | \$25 |
| Air Carbon Arc Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 2 | 0.1 | \$38 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 1 | 0.1 | \$13 |
| Electric Torch Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 0 | - | - |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 0 | - | - |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|--------------------------------------|-------|----------|---------|--------|---------|--------|-----------|----------|---------------|---------------|
| Thermal Spray Tungsten Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 0 | - | - |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 0 | - | - |
| SAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 16 | 1 | \$303 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 9 | 0.5 | \$114 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 2 | 25% | 209 | 10 | \$1,315 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 25% | 1,673 | 84 | \$3,508 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 25% | 3 | 0.2 | \$19 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 25% | 22 | 1 | \$46 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 2 | 25% | 42 | 2 | \$266 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 25% | 335 | 17 | \$702 |
| Brazing | State | \$84 | 1 | 3 | 1 | 2 | 25% | 21 | 1 | \$133 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 168 | 8 | \$352 |
| Metallizing | State | \$84 | 1 | 3 | 1 | 2 | 25% | 4 | 0.2 | \$25 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 33 | 2 | \$70 |
| GOVERNMENT | | | | | | | | | | |
| SMAW | State | \$84 | 1 | 1 | 1 | 2 | 25% | 20 | 1 | \$42 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 614 | 31 | \$1,287 |
| Plasma Cutting | State | \$84 | 1 | 1 | 1 | 2 | 25% | 0 | - | - |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 8 | 0.4 | \$17 |
| GMAW | State | \$84 | 1 | 1 | 1 | 2 | 25% | 4 | 0 | \$8 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 123 | 6 | \$257 |
| Brazing | State | \$84 | 1 | 1 | 1 | 2 | 25% | 2 | 0.1 | \$4 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 61 | 3 | \$129 |
| Metallizing | State | \$84 | 1 | 1 | 1 | 2 | 25% | 1 | 0.1 | \$2 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 12 | 1 | \$25 |
| GENERAL INDUSTRY | | | | | | | | | | |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 4,929 | 246 | \$62,028 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 5,019 | 251 | \$31,576 |
| GMAW | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 3,615 | 181 | \$45,490 |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|------------------------|-------|----------|---------|--------|---------|--------|-----------|----------|---------------|---------------|
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 3,680 | 184 | \$23,156 |
| TIG | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 1,095 | 55 | \$13,781 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 1,115 | 56 | \$7,017 |
| SAW | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 438 | 22 | \$5,512 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 446 | 22 | \$2,807 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 110 | 5 | \$1,378 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 112 | 6 | \$702 |
| Plasma Welding | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 110 | 5 | \$1,378 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 112 | 6 | \$702 |
| Resistance Welding | Large | \$84 | 1 | 3 | 2 | 2 | 25% | 657 | 33 | \$8,269 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 669 | 33 | \$4,210 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 38 | 2 | \$721 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 22 | 1 | \$278 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 55 | 3 | \$1,043 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 31 | 2 | \$392 |
| TIG | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 13 | 1 | \$247 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 7 | 0.4 | \$89 |
| FCAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 259 | 13 | \$4,893 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 147 | 7 | \$1,846 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 8 | 0.4 | \$152 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 5 | 0.3 | \$63 |
| Plasma Welding | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 3 | 0 | \$57 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | | - | - |
| Oxy-fuel Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 8 | 0.4 | \$152 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | | 0.0 | \$0 |
| Air Carbon Arc Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 3 | 0.2 | \$57 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 2 | 0.1 | \$25 |
| Electric Torch Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 0 | - | - |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|--|-------|----------|---------|--------|---------|--------|-----------|----------|---------------|---------------|
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 0 | - | - |
| Thermal Spray Tungsten Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 0 | - | - |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 0 | - | - |
| SAW | Large | \$84 | 1 | 3 | 1 | 2 | 75% | 34 | 2 | \$645 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 75% | 19 | 1 | \$240 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 2 | 25% | 313 | 16 | \$1,972 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 25% | 2,368 | 118 | \$4,967 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 25% | 4 | 0.2 | \$25 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 25% | 31 | 2 | \$65 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 2 | 25% | 62 | 3 | \$392 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 25% | 473 | 24 | \$992 |
| Brazing | State | \$84 | 1 | 3 | 1 | 2 | 25% | 31 | 2 | \$196 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 237 | 12 | \$497 |
| Metallizing | State | \$84 | 1 | 3 | 1 | 2 | 25% | 6 | 0.3 | \$38 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 25% | 47 | 2 | \$99 |
| SECTOR 3. PAINTING GENERAL INDUSTRY | | | | | | | | | | |
| AEROSPACE | Large | \$84 | 2 | 3 | 3 | 2 | 25% | 50 | 2 | \$1,871 |
| | Small | \$84 | 2 | 1 | 3 | 2 | 25% | 62 | 3 | \$785 |
| General Industry (Autobody) | Large | \$84 | 2 | 1 | 1 | 2 | 25% | 330 | 17 | \$1,386 |
| | Small | \$84 | 2 | 1 | 1 | 2 | 25% | 1,454 | 73 | \$6,100 |
| General Industry (Coil Coating) | Large | \$84 | 2 | 2 | 3 | 2 | 25% | 101 | 5 | \$2,540 |
| | Small | \$84 | 2 | 1 | 3 | 2 | 25% | 18 | 1 | \$231 |
| Maritime | Large | \$84 | 3 | 3 | 1 | 2 | 25% | 274 | 14 | \$5,180 |
| | Small | \$84 | 3 | 1 | 1 | 2 | 25% | 474 | 24 | \$2,985 |
| Construction | Large | \$84 | 3 | 3 | 1 | 2 | 25% | 789 | 39 | \$14,901 |
| | Small | \$84 | 3 | 1 | 1 | 2 | 25% | 4,197 | 210 | \$26,406 |
| Government | State | \$84 | 2 | 3 | 1 | 2 | 25% | 17 | 1 | \$215 |
| | Local | \$84 | 2 | 1 | 1 | 2 | 25% | 945 | 47 | \$3,964 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMP S | # INIT | % INIT ADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|--|-------|----------|------------|--------|-------------|--------|---------------|----------|------------------|------------------|
| ALL | Large | \$84 | 4 | 3 | 3 | 2 | 100% | 2 | 0.1 | \$562 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 0% | 0 | 0.0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| ALL | Large | \$84 | 9 | 2 | 3 | 2 | 25% | 2 | 0.1 | \$189 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 1 | 0.04 | \$5 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 4 | 3 | 3 | 2 | 25% | 3 | 0 | \$196 |
| | Small | \$84 | 0 | 3 | 0 | 2 | 0% | 0 | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 14 | 3 | 3 | 2 | 25% | 5 | 0 | \$1,230 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 0% | 0 | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCEI | | | | | | | | | | |
| ALL | Large | \$84 | 4 | 2 | 3 | 2 | 25% | 78 | 4 | \$3,937 |
| | Small | \$84 | 4 | 2 | 3 | 2 | 25% | 123 | 6 | \$6,187 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 5 | 1 | 9 | 2 | 100% | 2 | 0 | \$837 |
| | Small | \$84 | 3 | 1 | 5 | 2 | 100% | 7 | 0 | \$930 |
| SECTOR 10. PLASTIC COLORANT PRODUCEI | | | | | | | | | | |
| ALL | Large | \$84 | 4 | 3 | 3 | 2 | 25% | 79 | 4 | \$5,978 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 25% | 39 | 2 | \$244 |
| SECTOR 11. PLATING MIXTURE PRODUCER | | | | | | | | | | |
| ALL | Large | \$84 | 3 | 1 | 3 | 2 | 75% | 6 | 0 | \$335 |
| | Small | \$84 | 3 | 1 | 3 | 2 | 75% | 4 | 0 | \$223 |
| SECTOR 13. CHROMIUM METAL PRODUCEI | | | | | | | | | | |
| ALL | Large | \$84 | 16 | 3 | 3 | 2 | 100% | 1 | 0 | \$1,255 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 0% | 0 | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| Alloy and Stainless Steel | Large | \$84 | 8 | 3 | 3 | 2 | 75% | 39 | 2 | \$17,541 |
| | Small | \$84 | 4 | 1 | 3 | 2 | 75% | 12 | 1 | \$938 |
| Carbon Steel | Large | \$84 | 8 | 3 | 3 | 2 | 75% | 116 | 6 | \$52,623 |
| | Small | \$84 | 4 | 1 | 1 | 2 | 75% | 37 | 2 | \$919 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMP S | # INIT | % INIT ADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|--|-------|----------|------------|--------|-------------|--------|---------------|----------|------------------|------------------|
| Reshaping | Large | \$84 | 5 | 1 | 3 | 2 | 75% | 33 | 2 | \$3,134 |
| | Small | \$84 | 2 | 1 | 3 | 2 | 75% | 31 | 2 | \$1,181 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| ALL | Large | \$84 | 9 | 3 | 5 | 2 | 25% | 152 | 8 | \$43,078 |
| | Small | \$84 | 5 | 1 | 5 | 2 | 25% | 111 | 6 | \$5,802 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 7 | 1 | 21 | 2 | 25% | 2 | 0 | \$771 |
| | Small | \$84 | 5 | 1 | 7 | 2 | 25% | 1 | 0 | \$61 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 3 | 2 | 0% | 0 | 0 | \$0 |
| | Small | \$84 | 2 | 1 | 3 | 2 | 100% | 5 | 0 | \$234 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| ALL | Large | \$84 | 1 | 1 | 3 | 2 | 75% | 212 | 11 | \$4,002 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 75% | 1,600 | 80 | \$30,196 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| ALL | Large | \$84 | 3 | 3 | 3 | 2 | 75% | 307 | 15 | \$52,144 |
| | Small | \$84 | 2 | 1 | 2 | 2 | 75% | 623 | 31 | \$15,677 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| General Industry | Large | \$84 | 3 | 3 | 12 | 2 | 75% | 8 | 0 | \$5,256 |
| | Small | \$84 | 2 | 1 | 4 | 2 | 75% | 24 | 1 | \$1,233 |
| Fiber, Flat and Container Glass | Large | \$84 | 5 | 1 | 1 | 2 | 75% | 111 | 6 | \$3,488 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 75% | 6 | 0 | \$41 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| ALL | Large | \$84 | 3 | 3 | 2 | 2 | 75% | 78 | 4 | \$8,824 |
| | Small | \$84 | 2 | 1 | 2 | 2 | 75% | 312 | 16 | \$7,843 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| Catalyst Users | Large | \$84 | 2 | 3 | 3 | 2 | 75% | 193 | 10 | \$21,803 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 0% | 0 | 0 | \$0 |
| Chromium Catalyst Service | Large | \$84 | 0 | 3 | 3 | 2 | 75% | 25 | 1 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 75% | 5 | 0.2 | \$0.000 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 9 | 1 | 15 | 2 | 75% | 5 | 0 | \$4,402 |

Table 2

| | Size | SAMPCOST | JOB CAT | SHIFTS | # SAMP S | # INIT | % INIT ADD | # PLANTS | # PLANTS (5%) | Item 13 COSTS |
|---|-------|----------|------------|--------|-------------|--------|---------------|---------------|------------------|--------------------|
| | Small | \$84 | 0 | 1 | 0 | 2 | 75% | 0 | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | \$84 | 1 | 1 | 2 | 2 | 75% | 143 | 7 | \$1,798 |
| | Small | \$84 | 1 | 1 | 2 | 2 | 75% | 76 | 4 | \$962 |
| Maritime | Large | \$84 | 1 | 1 | 1 | 2 | 75% | 36 | 2 | \$226 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 75% | 32 | 2 | \$199 |
| Construction | Large | \$84 | 1 | 1 | 1 | 2 | 75% | 1,232 | 62 | \$7,753 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 75% | 4,932 | 247 | \$31,033 |
| Government | State | \$84 | 1 | 1 | 1 | 2 | 75% | 17 | 1 | \$107 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 75% | 62 | 3 | \$388 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| General Industry | Large | \$84 | 6 | 3 | 15 | 2 | 75% | 39 | 2 | \$67,012 |
| | Small | \$84 | 6 | 1 | 3 | 2 | 75% | 47 | 2 | \$5,361 |
| Government | State | \$84 | 0 | 3 | 15 | 2 | 75% | 0 | 0 | \$0 |
| | Local | \$84 | 6 | 1 | 3 | 2 | 75% | 24 | 1 | \$2,680 |
| SECTOR 30. SUPERALLOY PRODUCERS AND | | | | | | | | | | |
| ALL | Large | \$84 | 12 | 3 | 3 | 2 | 75% | 18 | 1 | \$11,915 |
| | Small | \$84 | 0 | 3 | 3 | 2 | 0% | 0 | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation | Large | \$84 | 1 | 1 | 1 | 2 | 0% | 54 | 3 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 0% | 247 | 12 | \$0 |
| | State | \$84 | 1 | 1 | 1 | 2 | 100% | 16 | 1 | \$131 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 93 | 5 | \$778 |
| Hazardous Waste-site Work | Large | \$84 | 1 | 1 | 1 | 2 | 75% | 43 | 2 | \$268 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 75% | 180 | 9 | \$1,132 |
| | State | \$84 | 1 | 1 | 1 | 2 | 75% | 1 | 0 | \$5 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 75% | 252 | 13 | \$1,588 |
| Refractory Brick Restoration | Large | \$84 | 1 | 1 | 1 | 2 | 0% | 47 | 2 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 0% | 185 | 9 | \$0 |
| Total | | | | | | | | 78,321 | 3,916 | \$1,113,483 |

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.

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

Variables:

SEMICONTTIME = Time, in hours, for an outside contractor (industrial hygiene technician) to conduct semi-annual monitoring

CONTCOST = Cost per hour for an outside industrial hygiene contractor

SEMI - ANNUALLY = 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

| 0 | | | | | | | | | |
|---------------------------------|-------|--------------|----------|-----------------|-----------|-----------|---------|----------|--------------|
| | Size | SEMICONTTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
| SECTOR 1. ELECTROPLATING | | | | | | | | | |
| Hard Chrome | Large | 12 | \$52.52 | 2 | 100% | 49.00% | 100.00% | 837 | \$517,226 |
| | Small | 12 | \$52.52 | 2 | 100% | 49.00% | 100.00% | 1,576 | \$973,422 |
| Job Shop Chrome Plater | Large | 12 | \$52.52 | 2 | 100% | 11.00% | 100.00% | 403 | \$55,944 |
| | Small | 12 | \$52.52 | 2 | 100% | 11.00% | 100.00% | 759 | \$105,266 |
| Captive Shop Chrome Plater | Large | 12 | \$52.52 | 2 | 100% | 14.00% | 100.00% | 550 | \$97,060 |
| | Small | 12 | \$52.52 | 2 | 100% | 14.00% | 100.00% | 1,035 | \$182,702 |
| Job Shop Plater | Large | 12 | \$52.52 | 2 | 100% | 10.00% | 100.00% | 403 | \$50,858 |
| | Small | 12 | \$52.52 | 2 | 100% | 10.00% | 100.00% | 759 | \$95,696 |
| Captive Shop Plater | Large | 12 | \$52.52 | 2 | 100% | 13.00% | 100.00% | 476 | \$78,082 |
| | Small | 12 | \$52.52 | 2 | 100% | 13.00% | 100.00% | 897 | \$146,977 |
| Operator | Large | 12 | \$52.52 | 2 | 100% | 16.00% | 100.00% | 837 | \$168,890 |
| | Small | 12 | \$52.52 | 2 | 100% | 16.00% | 100.00% | 1,576 | \$317,852 |
| SECTOR 2A. WELDING | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 100% | 0.92% | 90.00% | 3,676 | \$38,371 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.92% | 100.00% | 4,120 | \$47,773 |
| GMAW | Large | 12 | \$52.52 | 2 | 100% | 0.73% | 90.00% | 2,697 | \$22,334 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.73% | 100.00% | 3,021 | \$27,802 |

Table 4

| | Size | SEMI-CONT TIME | CONT COST | SEMI - ANNUALLY | % NOT SEMI | % ABOVE AVEAL | % CONT | # PLANTS | Item 13 COST |
|------------------------|-------|----------------|-----------|-----------------|------------|---------------|---------|----------|--------------|
| TIG | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 817 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 915 | \$0 |
| SAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 327 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 366 | \$0 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 81 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 91 | \$0 |
| Plasma Welding | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 81 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 91 | \$0 |
| Resistance Welding | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 490 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 550 | \$0 |
| MARITIME | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 18 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 10 | \$0 |
| GMAW | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 25 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 14 | \$0 |
| TIG | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 6 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 3 | \$0 |
| FCAW | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 121 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 68 | \$0 |
| Plasma Cutting | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 4 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 2 | \$0 |
| Plasma Welding | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 2 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 1 | \$0 |
| Oxy-fuel Cutting | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 4 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 2 | \$0 |
| Air Carbon Arc Cutting | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 2 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 1 | \$0 |
| Electric Torch Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 0 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |

Table 4

| | Size | SEMI-CONT TIME | CONT COST | SEMI - ANNUALLY | % NOT SEMI | % ABOVE AVEAL | % CONT | # PLANTS | Item 13 COST |
|--------------------------------------|-------|----------------|-----------|-----------------|------------|---------------|---------|----------|--------------|
| Thermal Spray Tungsten Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 0 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| SAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 16 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 9 | \$0 |
| CONSTRUCTION | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 209 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 1,673 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 3 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 22 | \$0 |
| GMAW | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 42 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 335 | \$0 |
| Brazing | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 21 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 168 | \$0 |
| Metallizing | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 4 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 33 | \$0 |
| GOVERNMENT | | | | | | | | | |
| SMAW | State | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 20 | \$0 |
| | Local | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 614 | \$0 |
| Plasma Cutting | State | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 0 | \$0 |
| | Local | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 8 | \$0 |
| GMAW | State | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 4 | \$0 |
| | Local | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 123 | \$0 |
| Brazing | State | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 2 | \$0 |
| | Local | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 61 | \$0 |
| Metallizing | State | 12 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 1 | \$0 |
| | Local | 12 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 12 | \$0 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 4,929 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 5,019 | \$0 |
| | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 3,615 | \$0 |

Table 4

| | Size | SEMI | CONT | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|------------------------|-------|------|---------|-----------------|-----------|-----------|---------|----------|--------------|
| GMAW | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 3,680 | \$0 |
| TIG | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 1,095 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 1,115 | \$0 |
| SAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 438 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 446 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 110 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 112 | \$0 |
| Plasma Welding | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 110 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 112 | \$0 |
| Resistance Welding | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 657 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 669 | \$0 |
| MARITIME | | | | | | | | | |
| SMAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 38 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 22 | \$0 |
| GMAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 55 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 31 | \$0 |
| TIG | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 13 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 7 | \$0 |
| FCAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 259 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 147 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 8 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 5 | \$0 |
| Plasma Welding | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 3 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| Oxy-fuel Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 8 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| Air Carbon Arc Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 3 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 2 | \$0 |
| | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 0 | \$0 |

Table 4

| | Size | SEMI | CONT | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|---------------------------------|-------|------|---------|-----------------|-----------|-----------|---------|----------|--------------|
| Electric Torch Cutting | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 0 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| SAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 50.00% | 34 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 19 | \$0 |
| CONSTRUCTION | | | | | | | | | |
| SMAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 313 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 2,368 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 4 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 31 | \$0 |
| GMAW | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 62 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 473 | \$0 |
| Brazing | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 31 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 237 | \$0 |
| Metallizing | State | 0 | \$52.52 | 2 | 100% | 0.00% | 95.00% | 6 | \$0 |
| | Local | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 47 | \$0 |
| SECTOR 3. PAINTING | | | | | | | | | |
| AEROSPACE | Large | 12 | \$52.52 | 2 | 100% | 28.00% | 25.00% | 50 | \$4,372 |
| | Small | 12 | \$52.52 | 2 | 100% | 9.00% | 75.00% | 62 | \$5,309 |
| General Industry (Autobody) | Large | 12 | \$52.52 | 2 | 100% | 5.00% | 25.00% | 330 | \$5,205 |
| | Small | 12 | \$52.52 | 2 | 100% | 5.00% | 75.00% | 1,454 | \$68,750 |
| General Industry (Coil Coating) | Large | 12 | \$52.52 | 2 | 100% | 8.00% | 25.00% | 101 | \$2,545 |
| | Small | 12 | \$52.52 | 2 | 100% | 8.00% | 75.00% | 18 | \$1,388 |
| Maritime | Large | 12 | \$52.52 | 2 | 100% | 36.00% | 10.00% | 274 | \$12,453 |
| | Small | 12 | \$52.52 | 2 | 100% | 36.00% | 90.00% | 474 | \$193,772 |
| Construction | Large | 12 | \$52.52 | 2 | 100% | 22.00% | 25.00% | 789 | \$54,732 |
| | Small | 12 | \$52.52 | 2 | 100% | 22.00% | 50.00% | 4,197 | \$581,941 |
| Government | State | 12 | \$52.52 | 2 | 100% | 12.00% | 25.00% | 17 | \$646 |
| | Local | 12 | \$52.52 | 2 | 100% | 12.00% | 25.00% | 945 | \$35,738 |

Table 4

| | Size | SEMI-CONT TIME | CONT COST | SEMI - ANNUALLY | % NOT SEMI | % ABOVE AVEAL | % CONT | # PLANTS | Item 13 COST |
|--|-------|----------------|-----------|-----------------|------------|---------------|---------|----------|--------------|
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 45.00% | 100.00% | 2 | \$1,056 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 0.00% | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 71.00% | 100.00% | 2 | \$1,491 |
| | Small | 12 | \$52.52 | 2 | 100% | 50.00% | 100.00% | 1 | \$525 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 33.00% | 100.00% | 3 | \$1,078 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 0.00% | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | |
| ALL | Large | 20 | \$52.52 | 2 | 100% | 100.00% | 20.00% | 5 | \$1,956 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 0.00% | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 13.00% | 75.00% | 78 | \$9,614 |
| | Small | 12 | \$52.52 | 2 | 100% | 13.00% | 75.00% | 123 | \$15,107 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 69.00% | 90.00% | 2 | \$1,735 |
| | Small | 12 | \$52.52 | 2 | 100% | 69.00% | 90.00% | 7 | \$5,783 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 51.00% | 100.00% | 79 | \$50,905 |
| | Small | 12 | \$52.52 | 2 | 100% | 51.00% | 100.00% | 39 | \$24,899 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 100.00% | 80.00% | 6 | \$5,968 |
| | Small | 12 | \$52.52 | 2 | 100% | 100.00% | 75.00% | 4 | \$3,730 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 100.00% | 100.00% | 1 | \$1,310 |
| | Small | 0 | \$52.52 | 2 | 0% | 0.00% | 0.00% | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | |
| Alloy and Stainless Steel | Large | 12 | \$52.52 | 2 | 100% | 38.00% | 90.00% | 39 | \$16,693 |
| | Small | 12 | \$52.52 | 2 | 100% | 38.00% | 90.00% | 12 | \$5,354 |
| Carbon Steel | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 116 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 37 | \$0 |

Table 4

| | Size | SEMI-CONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--|-------|--------------|----------|-----------------|-----------|-----------|---------|----------|--------------|
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | |
| Reshaping | Large | 12 | \$52.52 | 2 | 100% | 63.00% | 90.00% | 33 | \$23,731 |
| | Small | 12 | \$52.52 | 2 | 100% | 63.00% | 90.00% | 31 | \$22,362 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | |
| ALL | Large | 20 | \$52.52 | 2 | 100% | 100.00% | 90.00% | 152 | \$287,687 |
| | Small | 12 | \$52.52 | 2 | 100% | 100.00% | 90.00% | 111 | \$125,536 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 2 | 100% | 38.00% | 100.00% | 2 | \$1,197 |
| | Small | 12 | \$52.52 | 2 | 100% | 38.00% | 100.00% | 1 | \$399 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 0.00% | 0 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 27.00% | 100.00% | 5 | \$1,585 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 212 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 307 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | |
| General Industry | Large | 12 | \$52.52 | 2 | 100% | 25.00% | 90.00% | 8 | \$2,194 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 24 | \$0 |
| Fiber, Flat, Container Glass | Large | 12 | \$52.52 | 2 | 100% | 20.00% | 90.00% | 111 | \$25,155 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 6 | \$0 |
| SECTOR 22. PRINTING | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 78 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | |
| Catalyst Users | Large | 12 | \$52.52 | 2 | 100% | 9.00% | 90.00% | 193 | \$19,657 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| Chromium Catalyst Service Companies | Large | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 25 | \$0 |
| | Small | 12 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 5 | \$0 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | |

Table 4

| | Size | SEMI-CONT TIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--|-------|----------------|----------|-----------------|-----------|-----------|---------|---------------|--------------------|
| ALL | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 5 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | | |
| General Industry | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 143 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 76 | \$0 |
| Maritime | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 36 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 32 | \$0 |
| Construction | Large | 12 | \$52.52 | 2 | 100% | 22.00% | 100.00% | 1,232 | \$341,727 |
| | Small | 12 | \$52.52 | 2 | 100% | 22.00% | 100.00% | 4,932 | \$1,367,826 |
| Government | State | 12 | \$52.52 | 2 | 100% | 22.00% | 100.00% | 17 | \$4,735 |
| | Local | 12 | \$52.52 | 2 | 100% | 22.00% | 100.00% | 62 | \$17,120 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | |
| General Industry | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 39 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 47 | \$0 |
| Government | State | 0 | \$52.52 | 2 | 100% | 0.00% | 25.00% | 0 | \$0 |
| | Local | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 18 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 0.00% | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | |
| Industrial Rehabilitation | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 54 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 247 | \$0 |
| | State | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 16 | \$0 |
| | Local | 0 | \$52.52 | 2 | 100% | 0.00% | 100.00% | 93 | \$0 |
| Hazardous Waste-site Work | Large | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 43 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 180 | \$0 |
| | State | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 1 | \$0 |
| | Local | 0 | \$52.52 | 2 | 100% | 0.00% | 90.00% | 252 | \$0 |
| Refractory Brick Restoration | Large | 0 | \$52.52 | 2 | 100% | 60.00% | 90.00% | 47 | \$0 |
| | Small | 0 | \$52.52 | 2 | 100% | 60.00% | 90.00% | 185 | \$0 |
| Total | | | | | | | | 78,321 | \$6,281,224 |

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.

$$\text{Cost} = (\text{SAMPCOST} * \text{JOBAL} * \text{SHIFTS} * \text{\#SAMPS} * 2 * \% \text{NOTSEMI} * \% \text{ABOVE AL}) * \text{\#PLANTS}$$

Variables:

- SAMPCOST** = Variable cost per sample
- JOBAL** = Number of job categories exposed at or above the AL.
- SHIFTS** = Number of work shifts.
- \#SAMPS** = Number of samples per exposure measurement.
- SEMI** = 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 | \$84 | 1 | 2 | 3 | 2 | 100% | 49% | 837 | \$413,059 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 49% | 1,576 | \$388,690 |
| Job Shop Chrome Plater | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 11% | 403 | \$44,677 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 11% | 759 | \$42,033 |
| Captive Shop Chrome Plater | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 14% | 550 | \$77,513 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 14% | 1,035 | \$72,953 |
| Job Shop Plater | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 10% | 403 | \$40,615 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 10% | 759 | \$38,212 |
| Captive Shop Plater | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 13% | 476 | \$62,356 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 13% | 897 | \$58,688 |
| Operator | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 16% | 837 | \$134,877 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 16% | 1,576 | \$126,919 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 2 | 2 | 100% | 1% | 3,676 | \$34,048 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 1% | 4,120 | \$19,076 |
| GMAW | Large | \$84 | 1 | 3 | 2 | 2 | 100% | 1% | 2,697 | \$19,818 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 1% | 3,021 | \$11,101 |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|------------------------|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| TIG | Large | \$84 | 1 | 3 | 2 | 2 | 100% | 0% | 817 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 0% | 915 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 327 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 366 | \$0 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 2 | 2 | 100% | 0% | 81 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 0% | 91 | \$0 |
| Plasma Welding | Large | \$84 | 1 | 3 | 2 | 2 | 100% | 0% | 81 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 0% | 91 | \$0 |
| Resistance Welding | Large | \$84 | 1 | 3 | 2 | 2 | 100% | 0% | 490 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 0% | 550 | \$0 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 18 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 10 | \$0 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 25 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 14 | \$0 |
| TIG | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 6 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 3 | \$0 |
| FCAW | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 121 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 68 | \$0 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 4 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 2 | \$0 |
| Plasma Welding | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 2 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 1 | \$0 |
| Oxy-fuel Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 4 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 2 | \$0 |
| Air Carbon Arc Cutting | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 2 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 2 | 100% | 0% | 1 | \$0 |
| Electric Torch Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 0 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 0 | \$0 |
| Thermal Spray Tungsten | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 0 | \$0 |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--------------------------------------|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| Thermal Spray Tungsten Cutting | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 0 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 16 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 9 | \$0 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 209 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 1,673 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 3 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 22 | \$0 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 42 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 335 | \$0 |
| Brazing | State | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 21 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 168 | \$0 |
| Metallizing | State | \$84 | 1 | 3 | 1 | 2 | 100% | 0% | 4 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 33 | \$0 |
| GOVERNMENT | | | | | | | | | | |
| SMAW | State | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 20 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 614 | \$0 |
| Plasma Cutting | State | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 0 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 8 | \$0 |
| GMAW | State | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 4 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 123 | \$0 |
| Brazing | State | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 2 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 61 | \$0 |
| Metallizing | State | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 1 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 0% | 12 | \$0 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 4,929 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 5,019 | \$0 |
| GMAW | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 3,615 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 3,680 | \$0 |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|------------------------|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| TIG | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 1,095 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 10000% | 0% | 1,115 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 438 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 446 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 110 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 112 | \$0 |
| Plasma Welding | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 110 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 112 | \$0 |
| Resistance Welding | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 657 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 669 | \$0 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 38 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 22 | \$0 |
| GMAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 55 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 31 | \$0 |
| TIG | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 13 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 7 | \$0 |
| FCAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 259 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 147 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 8 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 5 | \$0 |
| Plasma Welding | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 3 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 0 | \$0 |
| Oxy-fuel Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 8 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 0 | \$0 |
| Air Carbon Arc Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 3 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 2 | \$0 |
| Electric Torch Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 0 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 0 | \$0 |
| Thermal Spray Tungsten | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 0 | \$0 |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|---|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| Thermal Spray Tungsten Cutting | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 0 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 34 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 2 | 100% | 0% | 19 | \$0 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 313 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 2,368 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 4 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 31 | \$0 |
| GMAW | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 62 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 473 | \$0 |
| Brazing | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 31 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 237 | \$0 |
| Metallizing | Large | \$84 | 0 | 3 | 1 | 2 | 100% | 0% | 6 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 47 | \$0 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| AEROSPACE | Large | \$84 | 1 | 3 | 3 | 2 | 100% | 28% | 50 | \$20,950 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 9% | 62 | \$2,827 |
| General Industry (Autobody) | Large | \$84 | 1 | 1 | 1 | 2 | 100% | 5% | 330 | \$2,771 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 100% | 5% | 1,454 | \$12,201 |
| General Industry (Coil Coating) | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 8% | 101 | \$8,129 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 8% | 18 | \$739 |
| Maritime | Large | \$84 | 2 | 3 | 1 | 2 | 100% | 36% | 274 | \$99,448 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 36% | 474 | \$0 |
| Construction | Large | \$84 | 1 | 3 | 1 | 2 | 100% | 22% | 789 | \$87,418 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 100% | 22% | 4,197 | \$154,914 |
| Government | State | \$84 | 1 | 3 | 1 | 2 | 100% | 12% | 17 | \$1,031 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 12% | 945 | \$19,027 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| ALL | Large | \$84 | 3 | 3 | 3 | 2 | 100% | 45% | 2 | \$3,797 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 0 | \$0 |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| ALL | Large | \$84 | 5 | 2 | 3 | 2 | 100% | 71% | 2 | \$5,955 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 50% | 1 | \$210 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 1 | 3 | 3 | 2 | 100% | 33% | 3 | \$1,291 |
| | Small | \$84 | 0 | 3 | 0 | 2 | 100% | 0% | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 6 | 3 | 3 | 2 | 100% | 100% | 5 | \$42,184 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 1 | 2 | 3 | 2 | 100% | 13% | 78 | \$10,237 |
| | Small | \$84 | 1 | 2 | 3 | 2 | 100% | 13% | 123 | \$16,086 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 3 | 1 | 9 | 2 | 100% | 69% | 2 | \$6,928 |
| | Small | \$84 | 2 | 1 | 5 | 2 | 100% | 69% | 7 | \$8,553 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | \$84 | 2 | 3 | 3 | 2 | 100% | 51% | 79 | \$121,960 |
| | Small | \$84 | 2 | 1 | 3 | 2 | 100% | 51% | 39 | \$19,885 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 1 | 1 | 3 | 2 | 100% | 100% | 6 | \$2,979 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 100% | 4 | \$1,986 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 2 | 3 | 3 | 2 | 100% | 100% | 1 | \$3,138 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 0% | 0% | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| Alloy Stainless Steel | Large | \$84 | 3 | 3 | 3 | 2 | 100% | 38% | 39 | \$66,656 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 38% | 12 | \$2,376 |
| Carbon Steel | Large | \$84 | 0 | 3 | 3 | 2 | 100% | 0% | 116 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 37 | \$0 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Forging Industry | Large | \$84 | 4 | 1 | 3 | 2 | 100% | 63% | 33 | \$42,116 |
| | Small | \$84 | 2 | 1 | 3 | 2 | 100% | 63% | 31 | \$19,843 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPs | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| ALL | Large | \$84 | 6 | 3 | 5 | 2 | 100% | 100% | 152 | \$2,297,486 |
| | Small | \$84 | 5 | 1 | 5 | 2 | 100% | 100% | 111 | \$464,139 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 6 | 1 | 21 | 2 | 100% | 38% | 2 | \$20,078 |
| | Small | \$84 | 6 | 1 | 7 | 2 | 100% | 38% | 1 | \$2,231 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 0 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 2 | 100% | 27% | 5 | \$633 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 212 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 2 | 100% | 0% | 307 | \$0 |
| | Small | \$84 | 0 | 1 | 2 | 2 | 100% | 0% | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| General Industry | Large | \$84 | 1 | 3 | 12 | 2 | 100% | 25% | 8 | \$11,680 |
| | Small | \$84 | 0 | 1 | 4 | 2 | 100% | 0% | 24 | \$0 |
| Fiber, Flat, and Container Glass | Large | \$84 | 3 | 1 | 1 | 2 | 100% | 20% | 111 | \$11,161 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 6 | \$0 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 2 | 2 | 100% | 0% | 78 | \$0 |
| | Small | \$84 | 0 | 1 | 2 | 2 | 100% | 0% | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| Catalyst User | Large | \$84 | 2 | 3 | 3 | 2 | 100% | 9% | 193 | \$52,327 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 0 | \$0 |
| Chromium Catalyst Service Companies | Large | \$84 | 0 | 3 | 3 | 2 | 100% | 0% | 25 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 5 | \$0 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 15 | 2 | 100% | 0% | 5 | \$0 |
| | Small | \$84 | 0 | 1 | 0 | 2 | 100% | 0% | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | \$84 | 0 | 1 | 2 | 2 | 100% | 0% | 143 | \$0 |

Table 5

| | Size | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--|-------|----------|-------|--------|--------|------|----------|----------|---------------|--------------------|
| | Small | \$84 | 0 | 1 | 2 | 2 | 100% | 0% | 76 | \$0 |
| Maritime | Large | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 36 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 32 | \$0 |
| Construction | Large | \$84 | 1 | 1 | 1 | 2 | 100% | 22% | 1,232 | \$45,484 |
| | Small | \$84 | 1 | 1 | 1 | 2 | 100% | 22% | 4,932 | \$182,059 |
| Government | State | \$84 | 1 | 1 | 1 | 2 | 100% | 22% | 17 | \$630 |
| | Local | \$84 | 1 | 1 | 1 | 2 | 100% | 22% | 62 | \$2,279 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| General Industry | Large | \$84 | 0 | 3 | 15 | 2 | 100% | 0% | 39 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 47 | \$0 |
| Government | State | \$84 | 0 | 3 | 15 | 2 | 100% | 0% | 0 | \$0 |
| | Local | \$84 | 0 | 1 | 3 | 2 | 100% | 0% | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 2 | 100% | 0% | 18 | \$0 |
| | Small | \$84 | 0 | 3 | 3 | 2 | 100% | 0% | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation | Large | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 54 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 247 | \$0 |
| | State | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 16 | \$0 |
| | Local | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 93 | \$0 |
| Hazardous Waste-site Work | Large | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 43 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 180 | \$0 |
| | State | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 1 | \$0 |
| | Local | \$84 | 0 | 1 | 1 | 2 | 100% | 0% | 252 | \$0 |
| Refractory Brick Restoration | Large | \$84 | 0 | 1 | 1 | 2 | 100% | 60% | 47 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 2 | 100% | 60% | 185 | \$0 |
| TOTAL | | | | | | | | | 78,321 | \$5,460,453 |

Table 3

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

BURDEN HOURS = (ADMINTIME * NONSUPEWAGE * 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

SEMI-ANNUALLY = # 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.

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|---------------------------------|-------|-------|--------|--------|---------------|----------|----------|----------|--------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | | | |
| Hard Chrome | Large | 1 | 2 | 3 | 2 | 100% | 49% | 0% | 0% | 837 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 49% | 0% | 0% | 1,576 | - | - | 0.5 | - | \$32.54 | \$ - |
| Job Shop Chrome Plater | Large | 1 | 2 | 3 | 2 | 100% | 11% | 0% | 0% | 403 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 11% | 0% | 0% | 759 | - | - | 0.5 | - | \$32.54 | \$ - |
| Captive Shop Chrome Plater | Large | 1 | 2 | 3 | 2 | 100% | 14% | 0% | 0% | 550 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 14% | 0% | 0% | 1,035 | - | - | 0.5 | - | \$32.54 | \$ - |
| Job Shop Plater | Large | 1 | 2 | 3 | 2 | 100% | 10% | 0% | 0% | 403 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 10% | 0% | 0% | 759 | - | - | 0.5 | - | \$32.54 | \$ - |
| Captive Shop Plater | Large | 1 | 2 | 3 | 2 | 100% | 13% | 0% | 0% | 476 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 13% | 0% | 0% | 897 | - | - | 0.5 | - | \$32.54 | \$ - |
| Operator | Large | 1 | 2 | 3 | 2 | 100% | 16% | 0% | 0% | 837 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 16% | 0% | 0% | 1,576 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 2 | 100% | 1% | 10% | 0% | 3,676 | 20 | 41 | 0.5 | 20 | \$32.54 | \$ 660 |
| | Small | 1 | 1 | 3 | 2 | 100% | 1% | 0% | 0% | 4,120 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | Large | 1 | 3 | 2 | 2 | 100% | 1% | 10% | 0% | 2,697 | 12 | 24 | 0.5 | 12 | \$32.54 | \$ 384 |
| | Small | 1 | 1 | 3 | 2 | 100% | 1% | 0% | 0% | 3,021 | - | - | 1.0 | - | \$32.54 | \$ - |
| TIG | Large | 1 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 817 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 915 | - | - | 1.0 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 327 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 366 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 81 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 91 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Welding | Large | 1 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 81 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 91 | - | - | 1.0 | - | \$32.54 | \$ - |
| Resistance Welding | Large | 1 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 490 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 550 | - | - | 1.0 | - | \$32.54 | \$ - |
| MARITIME | | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 18 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 10 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 25 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 14 | - | - | 1.0 | - | \$32.54 | \$ - |
| TIG | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 6 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 3 | - | - | 1.0 | - | \$32.54 | \$ - |
| | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 121 | - | - | 0.5 | - | \$32.54 | \$ - |

Table 3

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|-------|--------|--------|---------------|----------|----------|----------|--------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| FCAW | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 68 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 4 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 2 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Welding | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 1 | - | - | 1.0 | - | \$32.54 | \$ - |
| Oxy-fuel Cutting | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 4 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 2 | - | - | 1.0 | - | \$32.54 | \$ - |
| Air Carbon Arc Cutting | Large | 1 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 1 | - | - | 1.0 | - | \$32.54 | \$ - |
| Electric Torch Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 16 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 9 | - | - | 1.0 | - | \$32.54 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 209 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 1,673 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 3 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 22 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | Large | 1 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 42 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 335 | - | - | 1.0 | - | \$32.54 | \$ - |
| Brazing | State | 1 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 21 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 168 | - | - | 1.0 | - | \$32.54 | \$ - |
| Metallizing | State | 1 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 4 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 33 | - | - | 1.0 | - | \$32.54 | \$ - |
| GOVERNMENT | | | | | | | | | | | | | | | | |
| SMAW | State | 1 | 1 | 1 | 2 | 100% | 0% | 5% | 0% | 20 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 614 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | State | 1 | 1 | 1 | 2 | 100% | 0% | 5% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 8 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | State | 1 | 1 | 1 | 2 | 100% | 0% | 5% | 0% | 4 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 123 | - | - | 1.0 | - | \$32.54 | \$ - |
| Brazing | State | 1 | 1 | 1 | 2 | 100% | 0% | 5% | 0% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 61 | - | - | 1.0 | - | \$32.54 | \$ - |
| Metallizing | State | 1 | 1 | 1 | 2 | 100% | 0% | 5% | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 12 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 4,929 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 5,019 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 3,615 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 3,680 | - | - | 1.0 | - | \$32.54 | \$ - |
| TIG | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 1,095 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 1,115 | - | - | 1.0 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 438 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 446 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 110 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 112 | - | - | 1.0 | - | \$32.54 | \$ - |
| | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 410 | - | - | 0.5 | - | \$32.54 | \$ - |

Table 3

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|---------------------------------|-------|-------|--------|--------|---------------|----------|----------|----------|--------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| Plasma Welding | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 112 | - | - | 1.0 | - | \$32.54 | \$ - |
| Resistance Welding | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 657 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 669 | - | - | 1.0 | - | \$32.54 | \$ - |
| MARITIME | | | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 38 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 22 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 55 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 31 | - | - | 1.0 | - | \$32.54 | \$ - |
| TIG | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 13 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 7 | - | - | 1.0 | - | \$32.54 | \$ - |
| FCAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 259 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 147 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 8 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 5 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Welding | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 3 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| Oxy-fuel Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 8 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| Air Carbon Arc Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 3 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 2 | - | - | 1.0 | - | \$32.54 | \$ - |
| Electric Torch Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 50% | 0% | 34 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0% | 10% | 0% | 19 | - | - | 1.0 | - | \$32.54 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 313 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 2,368 | - | - | 1.0 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 4 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 31 | - | - | 1.0 | - | \$32.54 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 62 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 473 | - | - | 1.0 | - | \$32.54 | \$ - |
| Brazing | Large | 0 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 31 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 237 | - | - | 1.0 | - | \$32.54 | \$ - |
| Metallizing | Large | 0 | 3 | 1 | 2 | 100% | 0% | 5% | 0% | 6 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 47 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | | | |
| Aerospace | Large | 1 | 3 | 3 | 2 | 100% | 28% | 75% | 0% | 50 | 94 | 187 | 0.5 | 94 | \$32.54 | \$ 3,048 |
| | Small | 1 | 1 | 3 | 2 | 100% | 9% | 25% | 0% | 62 | 4 | 8 | 1.0 | 8 | \$32.54 | \$ 274 |
| General Industry (Autobody) | Large | 1 | 1 | 1 | 2 | 100% | 5% | 75% | 0% | 330 | 12 | 25 | 0.5 | 12 | \$32.54 | \$ 403 |
| | Small | 1 | 1 | 1 | 2 | 100% | 5% | 25% | 0% | 1,454 | 18 | 36 | 1.0 | 36 | \$32.54 | \$ 1,183 |
| General Industry (Coil Coating) | Large | 1 | 2 | 3 | 2 | 100% | 8% | 75% | 0% | 101 | 36 | 73 | 0.5 | 36 | \$32.54 | \$ 1,182 |
| | Small | 1 | 1 | 3 | 2 | 100% | 8% | 25% | 0% | 18 | 1 | 2 | 1.0 | 2 | \$32.54 | \$ 72 |
| Maritime | Large | 2 | 3 | 1 | 2 | 100% | 36% | 90% | 0% | 274 | 533 | 1,067 | 0.5 | 533 | \$32.54 | \$ 17,360 |
| | Small | 0 | 1 | 1 | 2 | 100% | 36% | 10% | 0% | 474 | - | - | 1.0 | - | \$32.54 | \$ - |
| Construction | Large | 1 | 3 | 1 | 2 | 100% | 22% | 75% | 0% | 789 | 391 | 782 | 0.5 | 391 | \$32.54 | \$ 12,716 |
| | Small | 1 | 1 | 1 | 2 | 100% | 22% | 50% | 0% | 4,197 | 462 | 923 | 1.0 | 923 | \$32.54 | \$ 30,046 |

Table 3

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST | |
|--|-------|-------|--------|--------|---------------|----------|----------|----------|--------|---------|-------------|-----------|-----------|--------------|-------------|--------------|--------|
| Government | State | 1 | 3 | 1 | 2 | 100% | 12% | 75% | 0% | 17 | 5 | 9 | 0.5 | 5 | \$32.54 | \$ 150 | |
| | Local | 1 | 1 | 1 | 2 | 100% | 12% | 75% | 0% | 945 | 85 | 170 | 1.0 | 170 | \$32.54 | \$ 5,536 | |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | | | | |
| All | Large | 3 | 3 | 3 | 2 | 100% | 45% | 0% | 0% | 2 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | | | | |
| All | Large | 5 | 2 | 3 | 2 | 100% | 71% | 0% | 0% | 2 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 2 | 100% | 50% | 0% | 0% | 1 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 1 | 3 | 3 | 2 | 100% | 33% | 0% | 0% | 3 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 0 | 3 | 0 | 2 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 6 | 3 | 3 | 2 | 100% | 100% | 80% | 0% | 5 | 201 | 402 | 0.5 | 201 | \$32.54 | \$ 6,545 | |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 1 | 2 | 3 | 2 | 100% | 13% | 25% | 0% | 78 | 15 | 31 | 0.5 | 15 | \$32.54 | \$ 496 | |
| | Small | 1 | 2 | 3 | 2 | 100% | 13% | 25% | 0% | 123 | 24 | 48 | 1.0 | 48 | \$32.54 | \$ 1,560 | |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 3 | 1 | 9 | 2 | 100% | 69% | 10% | 0% | 2 | 4 | 8 | 0.5 | 4 | \$32.54 | \$ 134 | |
| | Small | 2 | 1 | 5 | 2 | 100% | 69% | 10% | 0% | 7 | 5 | 10 | 0.5 | 5 | \$32.54 | \$ 166 | |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | | | | |
| All | Large | 2 | 3 | 3 | 2 | 100% | 51% | 0% | 0% | 79 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 2 | 1 | 3 | 2 | 100% | 51% | 0% | 0% | 39 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 1 | 1 | 3 | 2 | 100% | 100% | 20% | 0% | 6 | 4 | 7 | 0.5 | 4 | \$32.54 | \$ 116 | |
| | Small | 1 | 1 | 3 | 2 | 100% | 100% | 25% | 0% | 4 | 3 | 6 | 1.0 | 6 | \$32.54 | \$ 193 | |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 2 | 3 | 3 | 2 | 100% | 100% | 0% | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 0 | 1 | 1 | 2 | 0% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 3 | 3 | 3 | 2 | 100% | 38% | 10% | 0% | 39 | 40 | 79 | 0.5 | 40 | \$32.54 | \$ 1,293 | |
| | Small | 1 | 1 | 3 | 2 | 100% | 38% | 10% | 0% | 12 | 1 | 3 | 1.0 | 3 | \$32.54 | \$ 92 | |
| Carbon Steel | Large | 0 | 3 | 3 | 2 | 100% | 0% | 10% | 0% | 116 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 10% | 0% | 37 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | | | | |
| Reshaping | Large | 4 | 1 | 3 | 2 | 100% | 63% | 10% | 0% | 33 | 25 | 50 | 0.5 | 25 | \$32.54 | \$ 817 | |
| | Small | 2 | 1 | 3 | 2 | 100% | 63% | 10% | 0% | 31 | 12 | 24 | 1.0 | 24 | \$32.54 | \$ 770 | |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | | | | |
| All | Large | 6 | 3 | 5 | 2 | 100% | 100% | 10% | 0% | 152 | 1,369 | 2,739 | 0.5 | 1,369 | \$32.54 | \$ 44,561 | |
| | Small | 5 | 1 | 5 | 2 | 100% | 100% | 10% | 0% | 111 | 277 | 553 | 1.0 | 553 | \$32.54 | \$ 18,004 | |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 6 | 1 | 21 | 2 | 100% | 38% | 0% | 0% | 2 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 6 | 1 | 7 | 2 | 100% | 38% | 0% | 0% | 1 | - | - | 1.0 | - | \$32.54 | \$ - | |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 2 | 100% | 27% | 0% | 0% | 5 | - | - | 0.5 | - | \$32.54 | \$ - | |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 212 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 0% | 0% | 1,600 | - | - | 0.5 | - | \$32.54 | \$ - | |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 2 | 100% | 0% | 10% | 0% | 307 | - | - | 0.5 | - | \$32.54 | \$ - | |
| | Small | 0 | 1 | 2 | 2 | 100% | 0% | 10% | 0% | 623 | - | - | 0.5 | - | \$32.54 | \$ - | |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | | | | |
| | Large | 1 | 3 | 12 | 2 | 100% | 25% | 10% | 0% | 36 | 8 | 7 | 14 | 0.5 | 7 | \$32.54 | \$ 227 |

Table 3

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|--------|--------|---------------|----------|----------|----------|--------|---------------|--------------|--------------|-------------|--------------|----------------|-------------------|
| General Industry | Small | 0 | 1 | 4 | 2 | 100% | 0% | 10% | 0% | 24 | - | - | 1.0 | - | \$32.54 | \$ - |
| Fiber, Flat, Container Glass | Large | 3 | 1 | 1 | 2 | 100% | 20% | 10% | 0% | 111 | 7 | 13 | 0.5 | 7 | \$32.54 | \$ 216 |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 10% | 0% | 6 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 2 | 2 | 100% | 0% | 10% | 0% | 78 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 2 | 2 | 100% | 0% | 10% | 0% | 312 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | | | |
| Catalyst Users | Large | 2 | 3 | 3 | 2 | 100% | 9% | 10% | 0% | 193 | 31 | 62 | 0.5 | 31 | \$32.54 | \$ 1,015 |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 0 | 3 | 3 | 2 | 100% | 0% | 10% | 0% | 25 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 10% | 0% | 5 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 15 | 2 | 100% | 0% | 10% | 0% | 5 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 0 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 1 | 2 | 2 | 100% | 0% | 0% | 0% | 143 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 2 | 2 | 100% | 0% | 0% | 0% | 76 | - | - | 1.0 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 36 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 32 | - | - | 1.0 | - | \$32.54 | \$ - |
| Construction | Large | 1 | 1 | 1 | 2 | 100% | 22% | 0% | 0% | 1,232 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 22% | 0% | 0% | 4,932 | - | - | 1.0 | - | \$32.54 | \$ - |
| Government | State | 1 | 1 | 1 | 2 | 100% | 22% | 0% | 0% | 17 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 22% | 0% | 0% | 62 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 3 | 15 | 2 | 100% | 0% | 10% | 0% | 39 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0% | 10% | 0% | 47 | - | - | 1.0 | - | \$32.54 | \$ - |
| Government | State | 0 | 3 | 15 | 2 | 100% | 0% | 10% | 0% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 1 | 3 | 2 | 100% | 0% | 10% | 0% | 24 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 2 | 100% | 0% | 0% | 0% | 18 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 3 | 3 | 2 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 54 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 247 | - | - | 1.0 | - | \$32.54 | \$ - |
| | State | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 16 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 1 | 1 | 2 | 100% | 0% | 0% | 0% | 93 | - | - | 1.0 | - | \$32.54 | \$ - |
| Hazardous Waste-site Work | Large | 0 | 1 | 1 | 2 | 100% | 0% | 10% | 0% | 43 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0% | 10% | 0% | 180 | - | - | 1.0 | - | \$32.54 | \$ - |
| | State | 0 | 1 | 1 | 2 | 100% | 0% | 10% | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 1 | 1 | 2 | 100% | 0% | 10% | 0% | 252 | - | - | 1.0 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 0 | 1 | 1 | 2 | 100% | 60% | 10% | 0% | 47 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 60% | 10% | 0% | 185 | - | - | 1.0 | - | \$32.54 | \$ - |
| Weighted Average/Average/Total | | | | | 2 | | | | | 78,321 | 3,699 | 7,398 | 0.62 | 4,587 | \$32.54 | \$ 149,261 |

Table 6

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.

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

Variables:

- 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.
- %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.

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|---------------------------------|-------|--------|--------|---------|-------------------------------|------------|------------|-----------|---------|----------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | | | |
| Hard Chrome | Large | 0 | 2 | 3 | 4 | 0% | 0% | 0% | 0% | 837 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 1,576 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| Job Shop Chrome Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 0% | 0% | 403 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 759 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| Captive Shop Chrome Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 0% | 0% | 550 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 1,035 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| Job Shop Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 0% | 0% | 403 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 759 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| Captive Shop Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 0% | 0% | 476 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 897 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| Operator | Large | 0 | 2 | 3 | 4 | 100% | 0% | 0% | 0% | 837 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 1,576 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 4 | 100% | 5% | 10% | 0% | 3676 | 107 | 428 | 0.5 | 214 | \$ 32.54 | \$ 6,963 |
| | Small | 1 | 1 | 3 | 4 | 100% | 5% | 0% | 0% | 4,120 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| GMAW | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 2697 | 6 | 24 | 0.5 | 12 | \$ 32.54 | \$ 390 |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 3,021 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| TIG | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 817 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 915 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SAW | Large | 0 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 327 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 366 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 81 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 91 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Plasma Welding | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 81 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 91 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 490 | - | - | 0.5 | - | \$ 32.54 | \$ - |

Table 6

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------|-------|--------|--------|---------|-------------------------------|------------|------------|-----------|---------|----------|-------------|-----------|-----------|--------------|-------------|--------------|
| Resistance Welding | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 550 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| MARITIME | | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 18 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 10 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| GMAW | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 25 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 14 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| TIG | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 6 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 3 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| FCAW | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 121 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 68 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 4 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 2 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Plasma Welding | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 1 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Oxy-fuel Cutting | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 4 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 2 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Air Carbon Arc Cutting | Large | 1 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 1 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Electric Torch Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 16 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 9 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 209 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 1,673 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 3 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 22 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 42 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 335 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Brazing | State | 1 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 21 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 168 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Metallizing | State | 1 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 4 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 33 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| GOVERNMENT | | | | | | | | | | | | | | | | |
| SMAW | State | 1 | 1 | 1 | 4 | 100% | 0% | 5% | 0% | 20 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 614 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | State | 1 | 1 | 1 | 4 | 100% | 0% | 5% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |

Table 6

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST | |
|--------------------------------------|-------|-------------------------|--------|---------|-------------------------------|------------|------------|-----------|---------|----------|-------------|-----------|-----------|--------------|-------------|--------------|--|
| Plasma Cutting | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 8 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| | State | 1 | 1 | 1 | 4 | 100% | 0% | 5% | 0% | 4 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| GMAW | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 123 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| | State | 1 | 1 | 1 | 4 | 100% | 0% | 5% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| Brazing | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 61 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| | State | 1 | 1 | 1 | 4 | 100% | 0% | 5% | 0% | 1 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| Metallizing | Local | 1 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 12 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| | State | 1 | 1 | 1 | 4 | 100% | 0% | 5% | 0% | 1 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| SECTOR 2B. MILD STEEL WELDING | | GENERAL INDUSTRY | | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 4,929 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 5,019 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| GMAW | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 3,615 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 3,680 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| TIG | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 1,095 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 1,115 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| SAW | Large | 0 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 438 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 446 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Plasma Cutting | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 110 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 112 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Plasma Welding | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 110 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 112 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Resistance Welding | Large | 1 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 657 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 669 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| | | MARITIME | | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 38 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 22 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| GMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 55 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 31 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| TIG | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 13 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 7 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| FCAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 259 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 147 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Plasma Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 8 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 5 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Plasma Welding | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 3 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Oxy-fuel Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 8 | - | - | 0.5 | - | \$ 32.54 | \$ - | |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - | |
| Air Carbon Arc Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 3 | - | - | 0.5 | - | \$ 32.54 | \$ - | |

Table 6

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|--------|--------|---------|-------------------------------|------------|------------|-----------|---------|----------|-------------|-----------|-----------|--------------|-------------|--------------|
| Electric Torch Cutting | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 2 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 50% | 0% | 34 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 10% | 0% | 19 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 313 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 2,368 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 4 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 31 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 62 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 473 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Brazing | State | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 31 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 237 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Metallizing | State | 0 | 3 | 1 | 4 | 100% | 0% | 5% | 0% | 6 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 47 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | | | |
| Aerospace | Large | 1 | 3 | 3 | 4 | 100% | 28% | 75% | 0% | 50 | 94 | 375 | 0.5 | 187 | \$ 32.54 | \$ 6,095 |
| | Small | 1 | 1 | 3 | 4 | 100% | 9% | 25% | 0% | 62 | 4 | 17 | 1.0 | 17 | \$ 32.54 | \$ 548 |
| Autobody | Large | 0 | 1 | 1 | 4 | 100% | 5% | 75% | 0% | 330 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 2 | 1 | 1 | 4 | 100% | 5% | 25% | 0% | 1,454 | 36 | 145 | 1.0 | 145 | \$ 32.54 | \$ 4,733 |
| Coil Coating | Large | 0 | 2 | 3 | 4 | 100% | 8% | 75% | 0% | 101 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 8% | 25% | 0% | 18 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Maritime | Large | 1 | 3 | 1 | 4 | 100% | 36% | 90% | 0% | 274 | 267 | 1,067 | 0.5 | 533 | \$ 32.54 | \$ 17,360 |
| | Small | 1 | 1 | 1 | 4 | 100% | 36% | 10% | 0% | 474 | 17 | 68 | 1.0 | 68 | \$ 32.54 | \$ 2,223 |
| Construction | Large | 1 | 3 | 1 | 4 | 100% | 22% | 75% | 0% | 789 | 391 | 1,563 | 0.5 | 782 | \$ 32.54 | \$ 25,433 |
| | Small | 1 | 1 | 1 | 4 | 100% | 22% | 50% | 0% | 4,197 | 462 | 1,847 | 1.0 | 1,847 | \$ 32.54 | \$ 60,093 |
| Government | Large | 1 | 3 | 1 | 4 | 100% | 12% | 75% | 0% | 17 | 5 | 18 | 0.5 | 9 | \$ 32.54 | \$ 300 |
| | Small | 1 | 1 | 1 | 4 | 100% | 12% | 75% | 0% | 945 | 85 | 340 | 1.0 | 340 | \$ 32.54 | \$ 11,071 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 0% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | | | |
| All | Large | 1 | 2 | 3 | 4 | 100% | 77% | 0% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 1 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 0% | 0% | 3 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 3 | 0 | 4 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |

Table 6

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|--------|--------|---------|-------------------------------|------------|------------|-----------|---------|----------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 80% | 0% | 5 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 2 | 3 | 4 | 100% | 0% | 25% | 75% | 78 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 2 | 3 | 4 | 100% | 0% | 25% | 75% | 123 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 9 | 4 | 100% | 0% | 10% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 5 | 4 | 100% | 0% | 10% | 0% | 7 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | | | |
| All | Large | 3 | 3 | 3 | 4 | 100% | 36% | 0% | 0% | 79 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 5 | 1 | 3 | 4 | 100% | 36% | 0% | 0% | 39 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 4 | 100% | 0% | 20% | 0% | 6 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 25% | 0% | 4 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 0% | 0% | 1 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 0% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 0 | 3 | 3 | 4 | 100% | 0% | 10% | 0% | 39 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 10% | 0% | 12 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Carbon Steel | Large | 0 | 3 | 3 | 4 | 100% | 0% | 10% | 0% | 116 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 10% | 0% | 37 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | | | |
| Reshaping | Large | 0 | 1 | 3 | 4 | 100% | 63% | 10% | 0% | 33 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 63% | 10% | 0% | 31 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 5 | 4 | 100% | 0% | 10% | 0% | 152 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 5 | 4 | 100% | 0% | 10% | 0% | 111 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 7 | 1 | 21 | 4 | 100% | 62% | 0% | 0% | 2 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 5 | 1 | 7 | 4 | 100% | 62% | 0% | 0% | 1 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 5 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 212 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0% | 0% | 1,600 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 10% | 0% | 307 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 10% | 0% | 623 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 12 | 4 | 100% | 0% | 10% | 0% | 8 | - | - | 0.5 | - | \$ 32.54 | \$ - |

Table 6

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|--------|--------|---------|-------------------------------|------------|------------|-----------|---------|----------|-------------|-----------|-----------|--------------|-------------|--------------|
| All | Small | 0 | 1 | 4 | 4 | 100% | 0% | 10% | 0% | 24 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Fiber, Flat, Container Glass | Large | 1 | 1 | 1 | 4 | 100% | 20% | 10% | 0% | 111 | 2 | 9 | 0.5 | 4 | \$ 32.54 | \$ 144 |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 10% | 0% | 6 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 2 | 4 | 100% | 0% | 10% | 0% | 78 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 10% | 0% | 312 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | | | |
| Catalyst Users | Large | 0 | 3 | 3 | 4 | 100% | 0% | 10% | 0% | 193 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 0 | 3 | 3 | 4 | 100% | 0% | 10% | 0% | 25 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 10% | 0% | 5 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 15 | 4 | 100% | 0% | 10% | 0% | 5 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 0 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 1 | 2 | 4 | 100% | 0% | 0% | 0% | 143 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 0% | 0% | 76 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Maritime | Large | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 36 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 32 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Construction | Large | 0 | 1 | 1 | 4 | 100% | 22% | 0% | 0% | 1,232 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 22% | 0% | 0% | 4,932 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Government | STATE | 0 | 1 | 1 | 4 | 100% | 22% | 0% | 0% | 17 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | LOCAL | 0 | 1 | 1 | 4 | 100% | 22% | 0% | 0% | 62 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 3 | 15 | 4 | 100% | 0% | 10% | 0% | 39 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 10% | 0% | 47 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Government | STATE | 0 | 3 | 15 | 4 | 100% | 0% | 10% | 0% | 0 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | LOCAL | 0 | 1 | 3 | 4 | 100% | 0% | 10% | 0% | 24 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 0% | 0% | 18 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 3 | 3 | 4 | 100% | 0% | 0% | 0% | 0 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 54 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 247 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | State | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 16 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 0 | 1 | 1 | 4 | 100% | 0% | 0% | 0% | 93 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Hazardous Waste-site Work | Large | 0 | 1 | 1 | 4 | 100% | 0% | 10% | 0% | 43 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 10% | 0% | 180 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | State | 0 | 1 | 1 | 4 | 100% | 0% | 10% | 0% | 1 | - | - | 0.5 | - | \$ 32.54 | \$ - |
| | Local | 0 | 1 | 1 | 4 | 100% | 0% | 10% | 0% | 252 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| | Large | 0 | 1 | 1 | 4 | 100% | 60% | 10% | 0% | 47 | - | - | 0.5 | - | \$ 32.54 | \$ - |

Table 6

| VARIABLES | SIZE | JOBPEL | SHIFTS | # SAMPS | *4 TIMES PER YEAR (QUARTERLY) | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | RESPONDENTS | RESPONSES | ADMINTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|---------------------------------------|-------|--------|--------|---------|----------------------------------|------------|------------|-----------|---------|---------------|--------------|--------------|-------------|--------------|-----------------|-------------------|
| Refractory Brick Restoration | Small | 0 | 1 | 1 | 4 | 100% | 60% | 10% | 0% | 185 | - | - | 1.0 | - | \$ 32.54 | \$ - |
| Weighted Average/Average/Total | | | | | 4 | | | | | 78,321 | 1,475 | 5,900 | 0.70 | 4,130 | \$ 32.54 | \$ 134,390 |

Table 7

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.

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

Variables:

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

%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

| | Size | QUARTCONTTIME | CONTCOST | 4 times per year (quarterly) | %NOTQUART | %ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|---------------------------------|-------|---------------|----------|------------------------------|-----------|-----------|-------|--------|---------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | |
| Hard Chrome | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 837 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 1,576 | \$0 |
| Job Shop Chrome Plater | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 403 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 759 | \$0 |
| Captive Shop Chrome | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 550 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 1,035 | \$0 |
| Job Shop Plater | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 403 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 759 | \$0 |
| Captive Shop Plater | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 476 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 897 | \$0 |
| Operator | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 837 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 1,576 | \$0 |
| SECTOR 2A. WELDING | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 4 | 100% | 4.85% | 90% | 3,676 | \$404,568 |
| | Small | 12 | \$52.52 | 4 | 100% | 4.84% | 100% | 4,120 | \$502,659 |
| | Large | 12 | \$52.52 | 4 | 100% | 0.37% | 90% | 2,697 | \$22,640 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quar | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|------------------------|-------|--------------|----------|------------------------|-----------|------------|-------|--------|---------------|
| GMAW | Small | 12 | \$52.52 | 4 | 100% | 0.38% | 100% | 3,021 | \$28,944 |
| TIG | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 817 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 915 | \$0 |
| SAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 327 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 366 | \$0 |
| Plasma Cutting | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 81 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 91 | \$0 |
| Plasma Welding | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 81 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 91 | \$0 |
| Resistance Welding | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 490 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 550 | \$0 |
| MARITIME | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 18 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 10 | \$0 |
| GMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 25 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 14 | \$0 |
| TIG | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 6 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 3 | \$0 |
| FCAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 121 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 68 | \$0 |
| Plasma Cutting | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 4 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 2 | \$0 |
| Plasma Welding | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 2 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 1 | \$0 |
| Oxy-fuel Cutting | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 4 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 2 | \$0 |
| Air Carbon Arc Cutting | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 2 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 1 | \$0 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quar | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|------------------------------------|-------|--------------|----------|------------------------|-----------------|------------|-------|--------|---------------|
| Electric Torch Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 0 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 0 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| SAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 16 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 9 | \$0 |
| CONSTRUCTION | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 209 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 1,673 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 3 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 22 | \$0 |
| GMAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 42 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 335 | \$0 |
| Brazing | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 21 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 168 | \$0 |
| Metallizing | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 4 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 33 | \$0 |
| GOVERNMENT | | | | | | | | | |
| SMAW | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 20 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 614 | \$0 |
| Plasma Cutting | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 0 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 8 | \$0 |
| GMAW | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 4 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 123 | \$0 |
| Brazing | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 2 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 61 | \$0 |
| Metallizing | State | 12 | \$52.52 | 4 | 100% | 0.00% | 95% | 1 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 12 | \$0 |
| SECTOR 2B. MILD STEEL WELDI | | | | | MARITIME | | | | |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quarter) | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--------------------|-------|--------------|----------|----------------------------|-----------|------------|-------|--------|---------------|
| SMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 4,929 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 5,019 | \$0 |
| GMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 3,615 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 3,680 | \$0 |
| TIG | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 1,095 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 1,115 | \$0 |
| SAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 438 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 446 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 110 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 112 | \$0 |
| Plasma Welding | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 110 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 112 | \$0 |
| Resistance Welding | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 657 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 669 | \$0 |
| MARITIME | | | | | | | | | |
| SMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 38 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 22 | \$0 |
| GMAW | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 50% | 55 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 31 | \$0 |
| TIG | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 13 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 7 | \$0 |
| FCAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 259 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 147 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 8 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 5 | \$0 |
| Plasma Welding | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 3 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| Oxy-fuel Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 8 | \$0 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quar | %NOTQUART | **%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--|-------|--------------|----------|------------------------|-----------|-------------|-------|--------|---------------|
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| Air Carbon Arc Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 3 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 2 | \$0 |
| Electric Torch Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 0 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 0 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| SAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 50% | 34 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 19 | \$0 |
| CONSTRUCTION | | | | | | | | | |
| SMAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 313 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 2,368 | \$0 |
| Plasma Cutting | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 4 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 31 | \$0 |
| GMAW | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 62 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 473 | \$0 |
| Brazing | State | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 31 | \$0 |
| | Local | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 237 | \$0 |
| Metallizing | State | 0 | \$52.52 | 4 | 100% | 0.00% | 95% | 6 | \$0 |
| | Local | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 47 | \$0 |
| SECTOR 3. PAINTING GENERAL INDUSTRY | | | | | | | | | |
| AEROSPACE | Large | 12 | \$52.52 | 4 | 100% | 28.00% | 25% | 50 | \$8,744 |
| | Small | 12 | \$52.52 | 4 | 100% | 9.00% | 75% | 62 | \$10,618 |
| AUTOBODY | Large | 12 | \$52.52 | 4 | 100% | 5.00% | 25% | 330 | \$10,410 |
| | Small | 12 | \$52.52 | 4 | 100% | 5.00% | 75% | 1,454 | \$137,500 |
| MARITIME | Large | 12 | \$52.52 | 4 | 100% | 36.00% | 10% | 101 | \$9,161 |
| | Small | 12 | \$52.52 | 4 | 100% | 36.00% | 90% | 18 | \$14,990 |
| COIL COATING | Large | 12 | \$52.52 | 4 | 100% | 8.00% | 25% | 274 | \$13,836 |
| | Small | 12 | \$52.52 | 4 | 100% | 8.00% | 75% | 474 | \$71,768 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quar | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--|-------|--------------|----------|------------------------|-----------|------------|-------|--------|---------------|
| CONSTRUCTION | Large | 12 | \$52.52 | 4 | 100% | 22.00% | 25% | 789 | \$109,464 |
| | Small | 12 | \$52.52 | 4 | 100% | 22.00% | 50% | 4,197 | \$1,163,881 |
| GOVERNMENT | Large | 12 | \$52.52 | 4 | 100% | 12.00% | 25% | 17 | \$1,291 |
| | Small | 12 | \$52.52 | 4 | 100% | 12.00% | 25% | 945 | \$71,477 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 2 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 0% | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 77.00% | 100% | 2 | \$3,235 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 1 | \$0 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 3 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 0% | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 20% | 5 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 0% | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 75% | 78 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 75% | 123 | \$0 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 2 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 36.00% | 100% | 79 | \$71,866 |
| | Small | 12 | \$52.52 | 4 | 100% | 36.00% | 100% | 39 | \$35,152 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 80% | 6 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 75% | 4 | \$0 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 1 | \$0 |
| | Small | 12 | \$52.52 | 4 | 0% | 0.00% | 0% | 0 | \$0 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quar | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--|-------|--------------|----------|------------------------|-----------|------------|-------|--------|---------------|
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | |
| ALLOY AND STAINLESS STEEL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 39 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 12 | \$0 |
| CARBON STEEL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 116 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 37 | \$0 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | |
| RESHAPING | Large | 0 | \$52.52 | 4 | 100% | 63.00% | 90% | 33 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 63.00% | 90% | 31 | \$0 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 152 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 111 | \$0 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 62.00% | 100% | 2 | \$3,907 |
| | Small | 12 | \$52.52 | 4 | 100% | 62.00% | 100% | 1 | \$1,302 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 0% | 0 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 5 | \$0 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | |
| ALL | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 212 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 100% | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 307 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | |
| General Industry | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 8 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 24 | \$0 |
| Fiber, Flat and Container Glass | Large | 12 | \$52.52 | 4 | 100% | 20.00% | 90% | 111 | \$50,310 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 6 | \$0 |
| SECTOR 22. PRINTING | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 78 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 312 | \$0 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quarterly) | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--|-------|--------------|----------|------------------------------|-----------|------------|-------|--------|---------------|
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | |
| CATALYST USER | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 193 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| CATALYST SERVICE COMPANIES | Large | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 25 | \$0 |
| | Small | 12 | \$52.52 | 4 | 100% | 0.00% | 90% | 5 | \$0 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 5 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 143 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 76 | \$0 |
| MARITIME | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 36 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 32 | \$0 |
| CONSTRUCTION | Large | 0 | \$52.52 | 4 | 100% | 22.00% | 100% | 1,232 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 22.00% | 100% | 4,932 | \$0 |
| GOVERNMENT | STATE | 0 | \$52.52 | 4 | 100% | 22.00% | 100% | 17 | \$0 |
| | LOCAL | 0 | \$52.52 | 4 | 100% | 22.00% | 100% | 62 | \$0 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 39 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 47 | \$0 |
| GOVERNMENT | STATE | 0 | \$52.52 | 4 | 100% | 0.00% | 25% | 0 | \$0 |
| | LOCAL | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 18 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 0% | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | |
| Industrial Rehabilitation | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 54 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 247 | \$0 |
| | State | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 16 | \$0 |
| | Local | 0 | \$52.52 | 4 | 100% | 0.00% | 100% | 93 | \$0 |
| | Large | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 43 | \$0 |

Table 7

| | Size | QUARTCONTIME | CONTCOST | 4 times per year (quar | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|------------------------------|-------|--------------|----------|------------------------|-----------|------------|-------|---------------|--------------------|
| Hazardous Waste-site Work | Small | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 180 | \$0 |
| | State | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 1 | \$0 |
| | Local | 0 | \$52.52 | 4 | 100% | 0.00% | 90% | 252 | \$0 |
| Refractory Brick Restoration | Large | 0 | \$52.52 | 4 | 100% | 60.00% | 90% | 47 | \$0 |
| | Small | 0 | \$52.52 | 4 | 100% | 60.00% | 90% | 185 | \$0 |
| Total | | | | | | | | 78,321 | \$2,747,724 |

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
- \%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

| | | 0 | | | | | | | | |
|---------------------------------|-------|----------|--------|--------|---------|-----------------------|------------|------------|----------|--------------|
| | Size | SAMPCOST | JOBPEL | SHIFTS | \#SAMPS | 4 times per Year (Qua | \%NOTQUART | \%ABOVEPEL | \#PLANTS | Item 13 COST |
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| Hard Chrome | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 837 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 1,576 | \$0 |
| Job Shop Chrome Plater | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 403 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 759 | \$0 |
| Captive Shop Chrome Plater | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 550 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 1,035 | \$0 |
| Job Shop Plater | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 403 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 759 | \$0 |
| Captive Shop Plater | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 476 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 897 | \$0 |
| Operator | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 837 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 1,576 | \$0 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 4.85% | 3,676 | \$358,989 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 4.84% | 4,120 | \$200,713 |
| GMAW | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.37% | 2,697 | \$20,089 |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPs | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|------------------------|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.38% | 3,021 | \$11,557 |
| TIG | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 817 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 915 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 2 | 4 | 100% | 0.00% | 327 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 366 | \$0 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 81 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 91 | \$0 |
| Plasma Welding | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 81 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 91 | \$0 |
| Resistance Welding | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 490 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 550 | \$0 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 18 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 10 | \$0 |
| GMAW | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 25 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 14 | \$0 |
| TIG | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 6 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 3 | \$0 |
| FCAW | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 121 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 68 | \$0 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 4 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 2 | \$0 |
| Plasma Welding | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 2 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 1 | \$0 |
| Oxy-fuel Cutting | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 4 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 2 | \$0 |
| Air Carbon Arc Cutting | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 2 | \$0 |
| | Small | \$84 | 1 | 2 | 1 | 4 | 100% | 0.00% | 1 | \$0 |
| | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 0 | \$0 |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--------------------------------------|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| Electric Torch Cutting | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 16 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 9 | \$0 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 209 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 1,673 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 3 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 22 | \$0 |
| GMAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 42 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 335 | \$0 |
| Brazing | State | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 21 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 168 | \$0 |
| Metallizing | State | \$84 | 1 | 3 | 1 | 4 | 100% | 0.00% | 4 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 33 | \$0 |
| GOVERNMENT | | | | | | | | | | |
| SMAW | Large | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 20 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 614 | \$0 |
| Plasma Cutting | Large | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 8 | \$0 |
| GMAW | Large | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 4 | \$0 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 123 | \$0 |
| Brazing | State | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 2 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 61 | \$0 |
| Metallizing | State | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 1 | \$0 |
| | Local | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 12 | \$0 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 4,929 | \$0 |
| GENERAL INDUSTRY | | | | | | | | | | |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--------------------|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| SMAW | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 5,019 | \$0 |
| GMAW | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 3,615 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 3,680 | \$0 |
| TIG | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 1,095 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 1,115 | \$0 |
| SAW | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 438 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 446 | \$0 |
| Plasma Cutting | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 110 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 112 | \$0 |
| Plasma Welding | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 110 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 112 | \$0 |
| Resistance Welding | Large | \$84 | 1 | 3 | 2 | 4 | 100% | 0.00% | 657 | \$0 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 0.00% | 669 | \$0 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 38 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 22 | \$0 |
| GMAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 55 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 31 | \$0 |
| TIG | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 13 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 7 | \$0 |
| FCAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 259 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 147 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 8 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 5 | \$0 |
| Plasma Welding | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 3 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| Oxy-fuel Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 8 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 0 | \$0 |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--------------------------------|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| Air Carbon Arc Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 3 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 2 | \$0 |
| Electric Torch Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| Thermal Spray Tungsten Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 0 | \$0 |
| SAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 34 | \$0 |
| | Small | \$84 | 0 | 2 | 1 | 4 | 100% | 0.00% | 19 | \$0 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 313 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 2,368 | \$0 |
| Plasma Cutting | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 4 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 31 | \$0 |
| GMAW | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 62 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 473 | \$0 |
| Brazing | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 31 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 237 | \$0 |
| Metallizing | Large | \$84 | 0 | 3 | 1 | 4 | 100% | 0.00% | 6 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 47 | \$0 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| AEROSPACE | Large | \$84 | 1 | 3 | 3 | 4 | 100% | 28.00% | 50 | \$41,900 |
| | Small | \$84 | 1 | 1 | 3 | 4 | 100% | 9.00% | 62 | \$5,653 |
| AUTOBODY | Large | \$84 | 0 | 1 | 1 | 4 | 100% | 5.00% | 330 | \$0 |
| | Small | \$84 | 2 | 1 | 1 | 4 | 100% | 5.00% | 1,454 | \$48,804 |
| COIL COATING | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 8.00% | 101 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 8.00% | 18 | \$0 |
| MARITIME | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 36.00% | 274 | \$99,448 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 36.00% | 474 | \$57,314 |
| | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 22.00% | 789 | \$174,837 |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| CONSTRUCTION | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 22.00% | 4,197 | \$309,827 |
| GOVERNMENT | Large | \$84 | 1 | 3 | 1 | 4 | 100% | 12.00% | 17 | \$2,063 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 12.00% | 945 | \$38,054 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 2 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| ALL | Large | \$84 | 1 | 2 | 3 | 4 | 100% | 77.00% | 2 | \$2,583 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 1 | \$0 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 3 | \$0 |
| | Small | \$84 | 0 | 3 | 0 | 4 | 100% | 0.00% | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 5 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 78 | \$0 |
| | Small | \$84 | 0 | 2 | 3 | 4 | 100% | 0.00% | 123 | \$0 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 9 | 4 | 100% | 0.00% | 2 | \$0 |
| | Small | \$84 | 0 | 1 | 5 | 4 | 100% | 0.00% | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | \$84 | 3 | 3 | 3 | 4 | 100% | 36.00% | 79 | \$258,268 |
| | Small | \$84 | 5 | 1 | 3 | 4 | 100% | 36.00% | 39 | \$70,181 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 6 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 4 | \$0 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 1 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 0% | 0.00% | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| ALLOY AND STAINLESS STEEL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 39 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 12 | \$0 |
| CARBON STEEL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 116 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 37 | \$0 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping | Large | \$84 | 0 | 1 | 3 | 4 | 100% | 63.00% | 33 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 63.00% | 31 | \$0 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 5 | 4 | 100% | 0.00% | 152 | \$0 |
| | Small | \$84 | 0 | 1 | 5 | 4 | 100% | 0.00% | 111 | \$0 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 7 | 1 | 21 | 4 | 100% | 62.00% | 2 | \$76,436 |
| | Small | \$84 | 5 | 1 | 7 | 4 | 100% | 62.00% | 1 | \$6,066 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 0 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 5 | \$0 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 212 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 307 | \$0 |
| | Small | \$84 | 0 | 1 | 2 | 4 | 100% | 0.00% | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| General Industry | Large | \$84 | 0 | 3 | 12 | 4 | 100% | 0.00% | 8 | \$0 |
| | Small | \$84 | 0 | 1 | 4 | 4 | 100% | 0.00% | 24 | \$0 |
| Fiber, Flat and Container Glass | Large | \$84 | 1 | 1 | 1 | 4 | 100% | 20.00% | 111 | \$7,440 |
| | Small | \$84 | 1 | 1 | 1 | 4 | 100% | 0.00% | 6 | \$0 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 2 | 4 | 100% | 0.00% | 78 | \$0 |
| | Small | \$84 | 0 | 1 | 2 | 4 | 100% | 0.00% | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------|--------------|
| Chromium Users | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 193 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 0 | \$0 |
| Chromium Catalyst Service Companies | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 25 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 5 | \$0 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 1 | 15 | 4 | 100% | 0.00% | 5 | \$0 |
| | Small | \$84 | 0 | 1 | 0 | 4 | 100% | 0.00% | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | \$84 | 0 | 1 | 2 | 4 | 100% | 0.00% | 143 | \$0 |
| | Small | \$84 | 0 | 1 | 2 | 4 | 100% | 0.00% | 76 | \$0 |
| Maritime | Large | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 36 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 32 | \$0 |
| Construction | Large | \$84 | 0 | 1 | 1 | 4 | 22% | 0.00% | 1,232 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 22% | 0.00% | 4,932 | \$0 |
| Government | State | \$84 | 0 | 1 | 1 | 4 | 22% | 0.00% | 17 | \$0 |
| | Local | \$84 | 0 | 1 | 1 | 4 | 22% | 0.00% | 62 | \$0 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| GENERAL INDUSTRY | Large | \$84 | 0 | 3 | 15 | 4 | 100% | 0.00% | 39 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 47 | \$0 |
| GOVERNMENT | Large | \$84 | 0 | 3 | 15 | 4 | 100% | 0.00% | 0 | \$0 |
| | Small | \$84 | 0 | 1 | 3 | 4 | 100% | 0.00% | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 18 | \$0 |
| | Small | \$84 | 0 | 3 | 3 | 4 | 100% | 0.00% | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation | Large | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 54 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 247 | \$0 |
| | State | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 16 | \$0 |
| | Local | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 93 | \$0 |
| | Large | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 43 | \$0 |

Table 8

| | Size | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | 4 times per Year (Qua | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|------------------------------|-------|----------|--------|--------|--------|-----------------------|-----------|-----------|---------------|--------------------|
| Hazardous Waste-site Work | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 180 | \$0 |
| | State | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 1 | \$0 |
| | Local | \$84 | 0 | 1 | 1 | 4 | 100% | 0.00% | 252 | \$0 |
| Refractory Brick Restoration | Large | \$84 | 0 | 1 | 1 | 4 | 100% | 60.00% | 47 | \$0 |
| | Small | \$84 | 0 | 1 | 1 | 4 | 100% | 60.00% | 185 | \$0 |
| Total | | | | | | | | | 78,321 | \$1,790,224 |

Table 9

TABLE 9: Employer Time and Cost to Notify Employees of Quarterly Monitoring Results

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

Variables:

- 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
- %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

| VARIABLES | SIZE | JOBPEL | SHIFTS | #SAMPS | *4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|---------------------------------|-------|--------|--------|--------|-------------------------------|-----------|-----------|---------|-------------|-----------|----------|--------------|----------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | |
| Hard Chrome | Large | 0 | 2 | 3 | 4 | 100% | 0% | 837 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 1,576 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Job Shop Chrome Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 403 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 759 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Captive Shop Chrome Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 550 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 1,035 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Job Shop Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 403 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 759 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Captive Shop Plater | Large | 0 | 2 | 3 | 4 | 100% | 0% | 476 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 897 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Operator | Large | 0 | 2 | 3 | 4 | 100% | 0% | 837 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 1,576 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | |
| <i>GENERAL INDUSTRY</i> | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 4 | 100% | 5% | 3,676 | 1,070 | 4,279 | 0.25 | 1,070 | \$ 43.90 | \$ 46,969 |
| | Small | 1 | 1 | 3 | 4 | 100% | 5% | 4,120 | 598 | 2,393 | 0.25 | 598 | \$ 43.90 | \$ 26,261 |
| GMAW | Large | 1 | 3 | 2 | 4 | 100% | 0% | 2,697 | 60 | 239 | 0.25 | 60 | \$ 43.90 | \$ 2,628 |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 3,021 | 34 | 138 | 0.25 | 34 | \$ 43.90 | \$ 1,512 |
| TIG | Large | 1 | 3 | 2 | 4 | 100% | 0% | 817 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 915 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SAW | Large | 0 | 3 | 2 | 4 | 100% | 0% | 327 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 366 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 2 | 4 | 100% | 0% | 81 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 91 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Welding | Large | 1 | 3 | 2 | 4 | 100% | 0% | 81 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 91 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Resistance Welding | Large | 1 | 3 | 2 | 4 | 100% | 0% | 490 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 3 | 4 | 100% | 0% | 550 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| <i>MARITIME</i> | | | | | | | | | | | | | | |

Table 9

| VARIABLES | SIZE | JOBEL | SHIFTS | #SAMPS | *4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--------------------------------|-------|-------|--------|--------|-------------------------------|-----------|-----------|---------|-------------|-----------|----------|--------------|----------|--------------|
| SMAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 18 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 10 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| GMAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 25 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 14 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| TIG | Large | 1 | 1 | 1 | 4 | 100% | 0% | 6 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 3 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| FCAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 121 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 68 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 1 | 1 | 1 | 4 | 100% | 0% | 4 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Welding | Large | 1 | 1 | 1 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 1 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Oxy-fuel Cutting | Large | 1 | 1 | 1 | 4 | 100% | 0% | 4 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Air Carbon Arc Cutting | Large | 1 | 1 | 1 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 1 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Electric Torch Cutting | Large | 0 | 1 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 1 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SAW | Large | 0 | 1 | 1 | 4 | 100% | 0% | 16 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 9 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 4 | 100% | 0% | 209 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 1,673 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 3 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 22 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 42 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 335 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Brazing | State | 1 | 3 | 1 | 4 | 100% | 0% | 21 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 168 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Metallizing | State | 1 | 3 | 1 | 4 | 100% | 0% | 4 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 33 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| GOVERNMENT | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 20 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 614 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 0 | 1 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 8 | - | - | 0.25 | - | \$ 43.90 | \$ - |

Table 9

| VARIABLES | SIZE | JOBPEL | SHIFTS | #SAMPS | #4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--------------------------------------|-------|--------|--------|--------|-------------------------------|-----------|-----------|---------|-------------|-----------|----------|--------------|----------|--------------|
| GMAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 4 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 123 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Brazing | State | 1 | 1 | 1 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 61 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Metallizing | State | 1 | 1 | 1 | 4 | 100% | 0% | 1 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 1 | 1 | 1 | 4 | 100% | 0% | 12 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 1 | 1 | 4 | 100% | 0% | 4,929 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 5,019 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| GMAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 3,615 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 3,680 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| TIG | Large | 1 | 1 | 1 | 4 | 100% | 0% | 1,095 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 1,115 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SAW | Large | 1 | 1 | 1 | 4 | 100% | 0% | 438 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 446 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 0 | 1 | 1 | 4 | 100% | 0% | 110 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 112 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Welding | Large | 1 | 1 | 1 | 4 | 100% | 0% | 110 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 112 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Resistance Welding | Large | 1 | 1 | 1 | 4 | 100% | 0% | 657 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 1 | 4 | 100% | 0% | 669 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 38 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 22 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 55 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 31 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| TIG | Large | 0 | 3 | 1 | 4 | 100% | 0% | 13 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 7 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| FCAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 259 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 147 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 8 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 5 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Welding | Large | 0 | 3 | 1 | 4 | 100% | 0% | 3 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Oxy-fuel Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 8 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Air Carbon Arc Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 3 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |

Table 9

| VARIABLES | SIZE | JOBEL | SHIFTS | #SAMPS | *4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--|-------|-------|--------|--------|-------------------------------|-----------|-----------|---------|-------------|-----------|----------|--------------|----------|--------------|
| Electric Torch Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 34 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 19 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 313 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 2,368 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 4 | 100% | 0% | 4 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 31 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 4 | 100% | 0% | 62 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 1 | 4 | 100% | 0% | 473 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Brazing | State | 0 | 3 | 1 | 4 | 100% | 0% | 31 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 0 | 2 | 1 | 4 | 100% | 0% | 237 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Metallizing | State | 0 | 3 | 1 | 4 | 100% | 0% | 6 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 0 | 2 | 1 | 4 | 100% | 0% | 47 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | |
| Aerospace | Large | 1 | 3 | 3 | 4 | 100% | 28% | 50 | 125 | 499 | 0.25 | 125 | \$ 43.90 | \$ 5,482 |
| | Small | 1 | 1 | 3 | 4 | 100% | 9% | 62 | 17 | 67 | 0.25 | 17 | \$ 43.90 | \$ 740 |
| Autobody | Large | 1 | 3 | 3 | 4 | 100% | 5% | 330 | 149 | 595 | 0.25 | 149 | \$ 43.90 | \$ 6,526 |
| | Small | 1 | 1 | 3 | 4 | 100% | 5% | 1,454 | 218 | 873 | 0.25 | 218 | \$ 43.90 | \$ 9,578 |
| Coil Coating | Large | 1 | 3 | 3 | 4 | 100% | 8% | 101 | 73 | 291 | 0.25 | 73 | \$ 43.90 | \$ 3,191 |
| | Small | 1 | 1 | 3 | 4 | 100% | 8% | 18 | 4 | 18 | 0.25 | 4 | \$ 43.90 | \$ 193 |
| Maritime | Large | 1 | 3 | 3 | 4 | 100% | 36% | 274 | 889 | 3,556 | 0.25 | 889 | \$ 43.90 | \$ 39,034 |
| | Small | 1 | 1 | 3 | 4 | 100% | 36% | 474 | 512 | 2,050 | 0.25 | 512 | \$ 43.90 | \$ 22,496 |
| Construction | Large | 1 | 3 | 3 | 4 | 100% | 22% | 789 | 1,563 | 6,252 | 0.25 | 1,563 | \$ 43.90 | \$ 68,626 |
| | Small | 1 | 1 | 3 | 4 | 100% | 22% | 4,197 | 2,770 | 11,080 | 0.25 | 2,770 | \$ 43.90 | \$ 121,611 |
| Government | Large | 1 | 3 | 3 | 4 | 100% | 12% | 17 | 18 | 74 | 0.25 | 18 | \$ 43.90 | \$ 810 |
| | Small | 1 | 1 | 3 | 4 | 100% | 12% | 945 | 340 | 1,361 | 0.25 | 340 | \$ 43.90 | \$ 14,937 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | |
| All | Large | 1 | 2 | 3 | 4 | 100% | 77% | 2 | 8 | 31 | 0.25 | 8 | \$ 43.90 | \$ 338 |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 1 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 3 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 3 | 0 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |

Table 9

| VARIABLES | SIZE | JOBPEL | SHIFTS | #SAMPS | *4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--|-------|--------|--------|--------|-------------------------------|-----------|-----------|---------|-------------|-----------|----------|--------------|----------|--------------|
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 5 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 2 | 3 | 4 | 100% | 0% | 78 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 2 | 3 | 4 | 100% | 0% | 123 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 9 | 4 | 100% | 0% | 2 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 5 | 4 | 100% | 0% | 7 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 3 | 3 | 3 | 4 | 100% | 36% | 79 | 770 | 3,079 | 0.25 | 770 | \$ 43.90 | \$ 33,791 |
| | Small | 5 | 1 | 3 | 4 | 100% | 36% | 39 | 209 | 837 | 0.25 | 209 | \$ 43.90 | \$ 9,182 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 4 | 100% | 0% | 6 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 4 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 1 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 0% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 0 | 3 | 3 | 4 | 100% | 0% | 39 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 12 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Carbon Steel | Large | 3 | 3 | 3 | 4 | 100% | 38% | 116 | 1,192 | 4,767 | 0.25 | 1,192 | \$ 43.90 | \$ 52,327 |
| | Small | 1 | 1 | 3 | 4 | 100% | 38% | 37 | 42 | 167 | 0.25 | 42 | \$ 43.90 | \$ 1,828 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | |
| Forging Industry | Large | 3 | 3 | 3 | 4 | 100% | 38% | 33 | 341 | 1,363 | 0.25 | 341 | \$ 43.90 | \$ 14,957 |
| | Small | 1 | 1 | 3 | 4 | 100% | 38% | 31 | 36 | 143 | 0.25 | 36 | \$ 43.90 | \$ 1,566 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 5 | 4 | 100% | 0% | 152 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 5 | 4 | 100% | 0% | 111 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 7 | 1 | 21 | 4 | 100% | 62% | 2 | 228 | 911 | 0.25 | 228 | \$ 43.90 | \$ 10,001 |
| | Small | 5 | 1 | 7 | 4 | 100% | 62% | 1 | 18 | 72 | 0.25 | 18 | \$ 43.90 | \$ 794 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 5 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 4 | 100% | 0% | 212 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 1,600 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 307 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 623 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | |
| | Large | 0 | 3 | 12 | 4 | 25% | 0% | 8 | - | - | 0.25 | - | \$ 43.90 | \$ - |

Table 9

| VARIABLES | SIZE | JOBPEL | SHIFTS | #SAMPS | *4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--|-------|--------|--------|--------|-------------------------------|-----------|-----------|---------|-------------|-----------|----------|--------------|----------|--------------|
| General Industry | Small | 0 | 1 | 4 | 4 | 0% | 0% | 24 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Fiber, Flat, and Container Glass | Large | 1 | 3 | 1 | 4 | 25% | 0% | 111 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 0% | 0% | 6 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 2 | 4 | 100% | 0% | 78 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 312 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | |
| Catalyst Users | Large | 0 | 3 | 3 | 4 | 100% | 13% | 193 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Catalyst Companies | Large | 2 | 3 | 3 | 4 | 100% | 13% | 25 | 58 | 232 | 0.25 | 58 | \$ 43.90 | \$ 2,548 |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 5 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 15 | 4 | 100% | 0% | 5 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 0 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 1 | 2 | 4 | 100% | 0% | 143 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 76 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Maritime | Large | 0 | 1 | 2 | 4 | 100% | 0% | 36 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 32 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Construction | Large | 1 | 1 | 2 | 4 | 100% | 0% | 1,232 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 2 | 4 | 100% | 0% | 4,932 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Government | Large | 1 | 1 | 2 | 4 | 100% | 0% | 17 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 1 | 1 | 2 | 4 | 100% | 0% | 62 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 3 | 15 | 4 | 100% | 0% | 39 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 3 | 4 | 100% | 0% | 47 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Government | State | 0 | 3 | 15 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 0 | 1 | 3 | 4 | 100% | 0% | 24 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 4 | 100% | 0% | 18 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 3 | 3 | 4 | 100% | 0% | 0 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | 0 | 1 | 3 | 4 | 100% | 0% | 54 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 2 | 4 | 100% | 0% | 247 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | State | 0 | 1 | 2 | 4 | 100% | 0% | 16 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 0 | 1 | 3 | 4 | 100% | 0% | 93 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| Hazardous Waste-site Work | Large | 0 | 1 | 1 | 4 | 100% | 0% | 43 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Small | 0 | 1 | 1 | 4 | 100% | 0% | 180 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | State | 0 | 1 | 1 | 4 | 100% | 0% | 1 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Local | 0 | 1 | 1 | 4 | 100% | 0% | 252 | - | - | 0.25 | - | \$ 43.90 | \$ - |
| | Large | 1 | 1 | 1 | 4 | 100% | 60% | 47 | 28 | 113 | 0.25 | 28 | \$ 43.90 | \$ 1,235 |

Table 9

| VARIABLES | SIZE | JOBPEL | SHIFTS | #SAMPS | *4 TIMES PER YEAR (QUARTERLY) | %NOTQUART | %ABOVEPEL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|---------------------------------------|-------|--------|--------|--------|----------------------------------|-----------|-----------|---------------|---------------|---------------|-------------|---------------|-----------------|-------------------|
| Refractory Brick Restoration | Small | 1 | 1 | 1 | 4 | 100% | 60% | 185 | 111 | 445 | 0.25 | 111 | \$ 43.90 | \$ 4,885 |
| Weighted Average/Average/Total | | | | | 4 | | | 78,321 | 11,481 | 45,924 | 0.25 | 11,481 | \$ 43.90 | \$ 504,016 |

Table 9a (Remand)

TABLE 9A: Employer Time and Cost to Notify Employees of Initial Monitoring Results

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

COST = BURDEN HOURS * NONSUPWAGE

Variables

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%

| VARIABLES | SIZE | JOBCAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | #PLANTS * 5% | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPWAGE | ITEM 12 COST |
|---------------------------------|-------|--------|--------|---------|--------|-----------|----------|--------------|-------------|-----------|----------|--------------|------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | |
| Hard Chrome | Large | 7 | 2 | 3 | 2 | 25% | 837 | 42 | 440 | 879 | 0.25 | 220 | \$32.54 | \$ 7,153 |
| | Small | 7 | 1 | 3 | 2 | 25% | 1,576 | 79 | 414 | 827 | 0.25 | 207 | \$32.54 | \$ 6,731 |
| Job Shop Chrome Plater | Large | 1 | 2 | 3 | 2 | 25% | 403 | 20 | 30 | 61 | 0.25 | 15 | \$32.54 | \$ 492 |
| | Small | 1 | 1 | 3 | 2 | 25% | 759 | 38 | 28 | 57 | 0.25 | 14 | \$32.54 | \$ 463 |
| Captive Shop Chrome Plater | Large | 1 | 2 | 3 | 2 | 25% | 550 | 28 | 41 | 83 | 0.25 | 21 | \$32.54 | \$ 671 |
| | Small | 1 | 1 | 3 | 2 | 25% | 1,035 | 52 | 39 | 78 | 0.25 | 19 | \$32.54 | \$ 632 |
| Job Shop Plater | Large | 1 | 2 | 3 | 2 | 25% | 403 | 20 | 30 | 61 | 0.25 | 15 | \$32.54 | \$ 492 |
| | Small | 1 | 1 | 3 | 2 | 25% | 759 | 38 | 28 | 57 | 0.25 | 14 | \$32.54 | \$ 463 |
| Captive Shop Plater | Large | 1 | 2 | 3 | 2 | 25% | 476 | 24 | 36 | 71 | 0.25 | 18 | \$32.54 | \$ 581 |
| | Small | 1 | 1 | 3 | 2 | 25% | 897 | 45 | 34 | 67 | 0.25 | 17 | \$32.54 | \$ 547 |
| Operator | Large | 1 | 2 | 3 | 2 | 25% | 837 | 42 | 63 | 126 | 0.25 | 31 | \$32.54 | \$ 1,022 |
| | Small | 1 | 1 | 3 | 2 | 25% | 1,576 | 79 | 59 | 118 | 0.25 | 30 | \$32.54 | \$ 962 |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 2 | 25% | 3,676 | 184 | 276 | 551 | 0.25 | 138 | \$32.54 | \$ 4,486 |
| | Small | 1 | 1 | 3 | 2 | 25% | 4,120 | 206 | 154 | 309 | 0.25 | 77 | \$32.54 | \$ 2,514 |
| GMAW | Large | 1 | 3 | 2 | 2 | 25% | 2,697 | 135 | 202 | 405 | 0.25 | 101 | \$32.54 | \$ 3,291 |
| | Small | 1 | 1 | 3 | 2 | 25% | 3,021 | 151 | 113 | 227 | 0.25 | 57 | \$32.54 | \$ 1,843 |
| TIG | Large | 1 | 3 | 2 | 2 | 25% | 817 | 41 | 61 | 123 | 0.25 | 31 | \$32.54 | \$ 997 |
| | Small | 1 | 1 | 3 | 2 | 25% | 915 | 46 | 34 | 69 | 0.25 | 17 | \$32.54 | \$ 558 |
| SAW | Large | 1 | 3 | 2 | 2 | 25% | 327 | 16 | 24 | 49 | 0.25 | 12 | \$32.54 | \$ 398 |
| | Small | 1 | 1 | 3 | 2 | 25% | 366 | 18 | 14 | 27 | 0.25 | 7 | \$32.54 | \$ 223 |
| Plasma Cutting | Large | 1 | 3 | 2 | 2 | 25% | 81 | 4 | 6 | 12 | 0.25 | 3 | \$32.54 | \$ 99 |
| | Small | 1 | 1 | 3 | 2 | 25% | 91 | 5 | 3 | 7 | 0.25 | 2 | \$32.54 | \$ 56 |
| Plasma Welding | Large | 1 | 3 | 2 | 2 | 25% | 81 | 4 | 6 | 12 | 0.25 | 3 | \$32.54 | \$ 99 |
| | Small | 1 | 1 | 3 | 2 | 25% | 91 | 5 | 3 | 7 | 0.25 | 2 | \$32.54 | \$ 56 |
| Resistance Welding | Large | 1 | 3 | 2 | 2 | 25% | 490 | 25 | 37 | 74 | 0.25 | 18 | \$32.54 | \$ 598 |
| | Small | 1 | 1 | 3 | 2 | 25% | 550 | 27 | 21 | 41 | 0.25 | 10 | \$32.54 | \$ 335 |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 75% | 18 | 1 | 2 | 4 | 0.25 | 1 | \$32.54 | \$ 33 |
| | Small | 1 | 2 | 1 | 2 | 75% | 10 | 1 | 1 | 2 | 0.25 | 0.4 | \$32.54 | \$ 12 |

Table 9a (Remand)

| VARIABLES | SIZE | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------|-------|---------|--------|---------|--------|-----------|----------|---------------|-------------|-----------|----------|--------------|-------------|--------------|
| GMAW | Large | 1 | 3 | 1 | 2 | 75% | 25 | 1 | 3 | 6 | 0.25 | 1 | \$32.54 | \$ 46 |
| | Small | 1 | 2 | 1 | 2 | 75% | 14 | 1 | 1 | 2 | 0.25 | 1 | \$32.54 | \$ 17 |
| TIG | Large | 1 | 3 | 1 | 2 | 75% | 6 | 0.3 | 1 | 1 | 0.25 | 0.3 | \$32.54 | \$ 11 |
| | Small | 1 | 2 | 1 | 2 | 75% | 3 | 0.2 | 0.2 | 0.5 | 0.25 | 0.1 | \$32.54 | \$ 4 |
| FCAW | Large | 1 | 3 | 1 | 2 | 75% | 121 | 6 | 14 | 27 | 0.25 | 7 | \$32.54 | \$ 221 |
| | Small | 1 | 2 | 1 | 2 | 75% | 68 | 3 | 5 | 10 | 0.25 | 3 | \$32.54 | \$ 83 |
| Plasma Cutting | Large | 1 | 3 | 1 | 2 | 75% | 4 | 0.2 | 0.5 | 1 | 0.25 | 0.2 | \$32.54 | \$ 7 |
| | Small | 1 | 2 | 1 | 2 | 75% | 2 | 0.1 | 0.2 | 0.3 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| Plasma Welding | Large | 1 | 3 | 1 | 2 | 75% | 2 | 0.1 | 0.2 | 0.5 | 0.25 | 0.1 | \$32.54 | \$ 4 |
| | Small | 1 | 2 | 1 | 2 | 75% | 1 | 0.1 | 0.1 | 0.2 | 0.25 | 0.0 | \$32.54 | \$ 1 |
| Oxy-fuel Cutting | Large | 1 | 3 | 1 | 2 | 75% | 4 | 0.2 | 0.5 | 1 | 0.25 | 0.2 | \$32.54 | \$ 7 |
| | Small | 1 | 2 | 1 | 2 | 75% | 2 | 0.1 | 0.2 | 0.3 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| Air Carbon Arc Cutting | Large | 1 | 3 | 1 | 2 | 75% | 2 | 0.1 | 0.2 | 0.5 | 0.25 | 0.1 | \$32.54 | \$ 4 |
| | Small | 1 | 2 | 1 | 2 | 75% | 1 | 0.1 | 0.1 | 0.2 | 0.25 | 0.04 | \$32.54 | \$ 1 |
| Electric Torch Cutting | Large | 1 | 3 | 1 | 2 | 75% | 0 | - | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 75% | 0 | - | - | - | 0.25 | - | \$32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 1 | 3 | 1 | 2 | 75% | 0 | - | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 75% | 0 | - | - | - | 0.25 | - | \$32.54 | \$ - |
| SAW | Large | 1 | 3 | 1 | 2 | 75% | 16 | 1 | 2 | 4 | 0.25 | 1 | \$32.54 | \$ 29 |
| | Small | 1 | 2 | 1 | 2 | 75% | 9 | 0.5 | 1 | 1 | 0.25 | 0.3 | \$32.54 | \$ 11 |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 25% | 209 | 10 | 8 | 16 | 0.25 | 4 | \$32.54 | \$ 128 |
| | Small | 1 | 1 | 1 | 2 | 25% | 1,673 | 84 | 21 | 42 | 0.25 | 10.5 | \$32.54 | \$ 340 |
| Plasma Cutting | Large | 1 | 3 | 1 | 2 | 25% | 3 | 0.2 | 0.1 | 0.2 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| | Small | 1 | 1 | 1 | 2 | 25% | 22 | 1 | 0.3 | 1 | 0.25 | 0.1 | \$32.54 | \$ 4 |
| GMAW | Large | 1 | 3 | 1 | 2 | 25% | 42 | 2 | 2 | 3 | 0.25 | 1 | \$32.54 | \$ 26 |
| | Small | 1 | 1 | 1 | 2 | 25% | 335 | 17 | 4 | 8 | 0.25 | 2.1 | \$32.54 | \$ 68 |
| Brazing | State | 1 | 3 | 1 | 2 | 25% | 21 | 1 | 1 | 2 | 0.25 | 0.4 | \$32.54 | \$ 13 |
| | Local | 1 | 1 | 1 | 2 | 25% | 168 | 8 | 2 | 4 | 0.25 | 1.0 | \$32.54 | \$ 34 |
| Metallizing | State | 1 | 3 | 1 | 2 | 25% | 4 | 0.2 | 0.2 | 0.3 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| | Local | 1 | 1 | 1 | 2 | 25% | 33 | 2 | 0.4 | 1 | 0.25 | 0.2 | \$32.54 | \$ 7 |
| GOVERNMENT | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 1 | 1 | 2 | 25% | 20 | 1 | 0.3 | 1 | 0.25 | 0.1 | \$32.54 | \$ 4 |
| | Small | 1 | 1 | 1 | 2 | 25% | 614 | 31 | 8 | 15 | 0.25 | 3.8 | \$32.54 | \$ 125 |
| Plasma Cutting | Large | 1 | 1 | 1 | 2 | 25% | 0 | - | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 25% | 8 | 0.4 | 0.1 | 0 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| GMAW | Large | 1 | 1 | 1 | 2 | 25% | 4 | 0.2 | 0.1 | 0 | 0.25 | 0.03 | \$32.54 | \$ 1 |
| | Small | 1 | 1 | 1 | 2 | 25% | 123 | 6 | 2 | 3 | 0.25 | 0.8 | \$32.54 | \$ 25 |
| Brazing | State | 1 | 1 | 1 | 2 | 25% | 2 | 0.1 | 0.03 | 0 | 0.25 | 0.01 | \$32.54 | \$ 0.4 |
| | Local | 1 | 1 | 1 | 2 | 25% | 61 | 3 | 1 | 2 | 0.25 | 0.4 | \$32.54 | \$ 12 |
| Metallizing | State | 1 | 1 | 1 | 2 | 25% | 1 | 0.05 | 0.01 | 0 | 0.25 | 0.01 | \$32.54 | \$ 0.2 |

Table 9a (Remand)

| VARIABLES | SIZE | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | #PLANTS * 5% | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|-------------------------|--------|---------|--------|-----------|----------|--------------|-------------|-----------|----------|--------------|-------------|--------------|
| | Local | 1 | 1 | 1 | 2 | 25% | 12 | 1 | 0.2 | 0 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| SECTOR 2B. MILD STEEL WELDING | | GENERAL INDUSTRY | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 2 | 25% | 4,929 | 246 | 370 | 739 | 0.25 | 185 | \$32.54 | \$ 6,015 |
| | Small | 1 | 1 | 3 | 2 | 25% | 5,019 | 251 | 188 | 376 | 0.25 | 94.1 | \$32.54 | \$ 3,062 |
| GMAW | Large | 1 | 3 | 2 | 2 | 25% | 3,615 | 181 | 271 | 542 | 0.25 | 136 | \$32.54 | \$ 4,412 |
| | Small | 1 | 1 | 3 | 2 | 25% | 3,680 | 184 | 138 | 276 | 0.25 | 69.0 | \$32.54 | \$ 2,246 |
| TIG | Large | 1 | 3 | 2 | 2 | 25% | 1,095 | 55 | 82 | 164 | 0.25 | 41 | \$32.54 | \$ 1,336 |
| | Small | 1 | 1 | 3 | 2 | 25% | 1,115 | 56 | 42 | 84 | 0.25 | 20.9 | \$32.54 | \$ 680 |
| SAW | Large | 1 | 3 | 2 | 2 | 25% | 438 | 22 | 33 | 66 | 0.25 | 16 | \$32.54 | \$ 535 |
| | Small | 1 | 1 | 3 | 2 | 25% | 446 | 22 | 17 | 33 | 0.25 | 8.4 | \$32.54 | \$ 272 |
| Plasma Cutting | Large | 1 | 3 | 2 | 2 | 25% | 110 | 5 | 8 | 16 | 0.25 | 4 | \$32.54 | \$ 134 |
| | Small | 1 | 1 | 3 | 2 | 25% | 112 | 6 | 4 | 8 | 0.25 | 2.1 | \$32.54 | \$ 68 |
| Plasma Welding | Large | 1 | 3 | 2 | 2 | 25% | 110 | 5 | 8 | 16 | 0.25 | 4 | \$32.54 | \$ 134 |
| | Small | 1 | 1 | 3 | 2 | 25% | 112 | 6 | 4 | 8 | 0.25 | 2.1 | \$32.54 | \$ 68 |
| Resistance Welding | Large | 1 | 3 | 2 | 2 | 25% | 657 | 33 | 49 | 99 | 0.25 | 25 | \$32.54 | \$ 802 |
| | Small | 1 | 1 | 3 | 2 | 25% | 669 | 33 | 25 | 50 | 0.25 | 12.5 | \$32.54 | \$ 408 |
| | | MARITIME | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 75% | 38 | 2 | 4 | 9 | 0.25 | 2 | \$32.54 | \$ 70 |
| | Small | 1 | 2 | 1 | 2 | 75% | 22 | 1 | 2 | 3 | 0.25 | 0.8 | \$32.54 | \$ 27 |
| GMAW | Large | 1 | 3 | 1 | 2 | 75% | 55 | 3 | 6 | 12 | 0.25 | 3 | \$32.54 | \$ 101 |
| | Small | 1 | 2 | 1 | 2 | 75% | 31 | 2 | 2 | 5 | 0.25 | 1.2 | \$32.54 | \$ 38 |
| TIG | Large | 1 | 3 | 1 | 2 | 75% | 13 | 1 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 24 |
| | Small | 1 | 2 | 1 | 2 | 75% | 7 | 0.4 | 1 | 1 | 0.25 | 0.3 | \$32.54 | \$ 9 |
| FCAW | Large | 1 | 3 | 1 | 2 | 75% | 259 | 13 | 29 | 58 | 0.25 | 15 | \$32.54 | \$ 475 |
| | Small | 1 | 2 | 1 | 2 | 75% | 147 | 7 | 11 | 22 | 0.25 | 5.5 | \$32.54 | \$ 179 |
| Plasma Cutting | Large | 1 | 3 | 1 | 2 | 75% | 8 | 0.4 | 1 | 2 | 0.25 | 0.5 | \$32.54 | \$ 15 |
| | Small | 1 | 2 | 1 | 2 | 75% | 5 | 0.3 | 0.4 | 1 | 0.25 | 0.2 | \$32.54 | \$ 6 |
| Plasma Welding | Large | 1 | 3 | 1 | 2 | 75% | 3 | 0.2 | 0.3 | 1 | 0.25 | 0.2 | \$32.54 | \$ 6 |
| | Small | 1 | 2 | 1 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Oxy-fuel Cutting | Large | 1 | 3 | 1 | 2 | 75% | 8 | 0.4 | 1 | 2 | 0.25 | 0.5 | \$32.54 | \$ 15 |
| | Small | 1 | 2 | 1 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Air Carbon Arc Cutting | Large | 1 | 3 | 1 | 2 | 75% | 3 | 0.2 | 0.3 | 1 | 0.25 | 0.2 | \$32.54 | \$ 6 |
| | Small | 1 | 2 | 1 | 2 | 75% | 2 | 0.1 | 0.2 | 0.3 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| Electric Torch Cutting | Large | 1 | 3 | 1 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 1 | 3 | 1 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SAW | Large | 1 | 3 | 1 | 2 | 75% | 34 | 2 | 4 | 8 | 0.25 | 2 | \$32.54 | \$ 63 |
| | Small | 1 | 2 | 1 | 2 | 75% | 19 | 1 | 1 | 3 | 0.25 | 0.7 | \$32.54 | \$ 23 |
| | | CONSTRUCTION | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 25% | 313 | 16 | 12 | 24 | 0.25 | 6 | \$32.54 | \$ 191 |

Table 9a (Remand)

| VARIABLES | SIZE | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------------------------|--------|---------|--------|-----------|----------|---------------|-------------|-----------|----------|--------------|-------------|--------------|
| | Small | 1 | 1 | 1 | 2 | 25% | 2,368 | 118 | 30 | 59 | 0.25 | 14.8 | \$32.54 | \$ 482 |
| Plasma Cutting | Large | 1 | 3 | 1 | 2 | 25% | 4 | 0.2 | 0.2 | 0.3 | 0.25 | 0.1 | \$32.54 | \$ 2 |
| | Small | 1 | 1 | 1 | 2 | 25% | 31 | 2 | 0.4 | 1 | 0.25 | 0.2 | \$32.54 | \$ 6 |
| GMAW | Large | 1 | 3 | 1 | 2 | 25% | 62 | 3 | 2 | 5 | 0.25 | 1 | \$32.54 | \$ 38 |
| | Small | 1 | 1 | 1 | 2 | 25% | 473 | 24 | 6 | 12 | 0.25 | 3 | \$32.54 | \$ 96 |
| Brazing | State | 1 | 3 | 1 | 2 | 25% | 31 | 2 | 1 | 2 | 0.25 | 1 | \$32.54 | \$ 19 |
| | Local | 1 | 1 | 1 | 2 | 25% | 237 | 12 | 3 | 6 | 0.25 | 1 | \$32.54 | \$ 48 |
| Metallizing | State | 1 | 3 | 1 | 2 | 25% | 6 | 0.3 | 0.2 | 0.5 | 0.25 | 0.1 | \$32.54 | \$ 4 |
| | Local | 1 | 1 | 1 | 2 | 25% | 47 | 2 | 1 | 1 | 0.25 | 0.3 | \$32.54 | \$ 10 |
| SECTOR 3. PAINTING | | GENERAL INDUSTRY | | | | | | | | | | | | |
| General Industry (Aerospace) | Large | 2 | 3 | 3 | 2 | 25% | 50 | 2 | 11 | 22 | 0.25 | 6 | \$32.54 | \$ 181 |
| | Small | 1 | 1 | 3 | 2 | 25% | 62 | 3 | 2 | 5 | 0.25 | 1 | \$32.54 | \$ 38 |
| General Industry (Autobody) | Large | 2 | 2 | 3 | 2 | 25% | 330 | 17 | 50 | 99 | 0.25 | 25 | \$32.54 | \$ 806 |
| | Small | 2 | 1 | 3 | 2 | 25% | 1,454 | 73 | 109 | 218 | 0.25 | 55 | \$32.54 | \$ 1,775 |
| General Industry (Coil Coating) | Large | 2 | 2 | 3 | 2 | 25% | 101 | 5 | 15 | 30 | 0.25 | 8 | \$32.54 | \$ 246 |
| | Small | 2 | 1 | 3 | 2 | 25% | 18 | 1 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 22 |
| Maritime | Large | 3 | 3 | 1 | 2 | 25% | 274 | 14 | 31 | 62 | 0.25 | 15 | \$32.54 | \$ 502 |
| | Small | 3 | 1 | 1 | 2 | 25% | 474 | 24 | 18 | 36 | 0.25 | 9 | \$32.54 | \$ 289 |
| Construction | Large | 3 | 3 | 1 | 2 | 25% | 789 | 39 | 89 | 178 | 0.25 | 44 | \$32.54 | \$ 1,445 |
| | Small | 3 | 1 | 1 | 2 | 25% | 4,197 | 210 | 157 | 315 | 0.25 | 79 | \$32.54 | \$ 2,561 |
| Government | Large | 2 | 3 | 1 | 2 | 25% | 17 | 1 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 21 |
| | Small | 2 | 1 | 1 | 2 | 25% | 945 | 47 | 24 | 47 | 0.25 | 12 | \$32.54 | \$ 384 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | |
| All | Large | 4 | 3 | 3 | 2 | 100% | 2 | 0 | 3 | 7 | 0.25 | 2 | \$32.54 | \$ 55 |
| | Small | 0 | 1 | 3 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | |
| All | Large | 9 | 2 | 3 | 2 | 25% | 2 | 0.1 | 1 | 2 | 0.25 | 1 | \$32.54 | \$ 18 |
| | Small | 1 | 1 | 3 | 2 | 25% | 1 | 0.04 | 0.03 | 0.1 | 0.25 | 0.02 | \$32.54 | \$ 1 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 4 | 3 | 3 | 2 | 25% | 3 | 0.1 | 1 | 2 | 0.25 | 1 | \$32.54 | \$ 19 |
| | Small | 0 | 3 | 0 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 14 | 3 | 3 | 2 | 25% | 5 | 0.2 | 7 | 15 | 0.25 | 4 | \$32.54 | \$ 119 |
| | Small | 0 | 1 | 3 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 4 | 2 | 3 | 2 | 25% | 78 | 4 | 23 | 47 | 0.25 | 12 | \$32.54 | \$ 382 |
| | Small | 4 | 2 | 3 | 2 | 25% | 123 | 6 | 37 | 74 | 0.25 | 18 | \$32.54 | \$ 600 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 5 | 1 | 9 | 2 | 100% | 2 | 0.1 | 5 | 10 | 0.25 | 2 | \$32.54 | \$ 81 |
| | Small | 3 | 1 | 5 | 2 | 100% | 7 | 0.4 | 6 | 11 | 0.25 | 3 | \$32.54 | \$ 90 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 4 | 3 | 3 | 2 | 25% | 79 | 4 | 36 | 71 | 0.25 | 18 | \$32.54 | \$ 580 |
| | Small | 1 | 1 | 3 | 2 | 25% | 39 | 2 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 24 |

Table 9a (Remand)

| VARIABLES | SIZE | JOB/CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | #PLANTS * 5% | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------|--------|---------|--------|-----------|----------|--------------|-------------|-----------|----------|--------------|-------------|--------------|
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 3 | 1 | 3 | 2 | 75% | 6 | 0.3 | 2 | 4 | 0.25 | 1 | \$32.54 | \$ 32 |
| | Small | 3 | 1 | 3 | 2 | 75% | 4 | 0.2 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 22 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 16 | 3 | 3 | 2 | 100% | 1 | 0.1 | 7 | 15 | 0.25 | 4 | \$32.54 | \$ 122 |
| | Small | 0 | 1 | 1 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | |
| Alloy Stainless Steel | Large | 8 | 3 | 3 | 2 | 75% | 39 | 2 | 105 | 209 | 0.25 | 52 | \$32.54 | \$ 1,701 |
| | Small | 4 | 1 | 3 | 2 | 75% | 12 | 1 | 6 | 11 | 0.25 | 3 | \$32.54 | \$ 91 |
| Carbon Steel | Large | 8 | 3 | 3 | 2 | 75% | 116 | 6 | 314 | 627 | 0.25 | 157 | \$32.54 | \$ 5,103 |
| | Small | 4 | 1 | 3 | 2 | 75% | 37 | 2 | 16 | 33 | 0.25 | 8 | \$32.54 | \$ 267 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | |
| Forging Industry | Large | 5 | 1 | 3 | 2 | 75% | 33 | 2 | 19 | 37 | 0.25 | 9 | \$32.54 | \$ 304 |
| | Small | 2 | 1 | 1 | 2 | 75% | 31 | 2 | 2 | 5 | 0.25 | 1 | \$32.54 | \$ 38 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | |
| All | Large | 9 | 3 | 5 | 2 | 25% | 152 | 8 | 257 | 514 | 0.25 | 128 | \$32.54 | \$ 4,178 |
| | Small | 5 | 1 | 5 | 2 | 25% | 111 | 6 | 35 | 69 | 0.25 | 17 | \$32.54 | \$ 563 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 7 | 1 | 21 | 2 | 25% | 2 | 0.1 | 5 | 9 | 0.25 | 2 | \$32.54 | \$ 75 |
| | Small | 5 | 1 | 7 | 2 | 25% | 1 | 0.0 | 0.4 | 1 | 0.25 | 0.2 | \$32.54 | \$ 6 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 2 | 1 | 3 | 2 | 100% | 5 | 0.2 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 23 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | |
| All | Large | 1 | 1 | 3 | 2 | 75% | 212 | 11 | 24 | 48 | 0.25 | 12 | \$32.54 | \$ 388 |
| | Small | 1 | 1 | 3 | 2 | 75% | 1,600 | 80 | 180 | 360 | 0.25 | 90 | \$32.54 | \$ 2,928 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | |
| All | Large | 3 | 3 | 3 | 2 | 75% | 307 | 15 | 311 | 622 | 0.25 | 155 | \$32.54 | \$ 5,057 |
| | Small | 2 | 1 | 2 | 2 | 75% | 623 | 31 | 93 | 187 | 0.25 | 47 | \$32.54 | \$ 1,520 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | |
| General Industry | Large | 3 | 3 | 12 | 2 | 75% | 8 | 0.4 | 31 | 63 | 0.25 | 16 | \$32.54 | \$ 510 |
| | Small | 2 | 1 | 4 | 2 | 75% | 24 | 1 | 7 | 15 | 0.25 | 4 | \$32.54 | \$ 120 |
| Fiber, Flat and Container Glass | Large | 3 | 3 | 12 | 2 | 75% | 111 | 6 | 449 | 898 | 0.25 | 225 | \$32.54 | \$ 7,306 |
| | Small | 2 | 1 | 4 | 2 | 75% | 6 | 0.3 | 2 | 4 | 0.25 | 1 | \$32.54 | \$ 31 |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | |
| All | Large | 3 | 3 | 2 | 2 | 75% | 78 | 4 | 53 | 105 | 0.25 | 26 | \$32.54 | \$ 856 |
| | Small | 2 | 1 | 2 | 2 | 75% | 312 | 16 | 47 | 93 | 0.25 | 23 | \$32.54 | \$ 761 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | |
| Catalyst Users | Large | 2 | 3 | 3 | 2 | 75% | 193 | 10 | 130 | 260 | 0.25 | 65 | \$32.54 | \$ 2,114 |
| | Small | 0 | 1 | 3 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 2 | 3 | 3 | 2 | 75% | 25 | 1 | 17 | 33 | 0.25 | 8 | \$32.54 | \$ 272 |
| | Small | 0 | 1 | 3 | 2 | 0% | 5 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 9 | 1 | 15 | 2 | 75% | 5 | 0 | 26 | 52 | 0.25 | 13 | \$32.54 | \$ 427 |

Table 9a (Remand)

| VARIABLES | SIZE | JOB CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | #PLANTS * 5% | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------|--------|---------|----------|-----------|----------------|--------------|---------------|----------------|-------------|---------------|----------------|-------------------|
| | Small | 0 | 1 | 0 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | |
| General Industry | Large | 1 | 1 | 1 | 2 | 75% | 143 | 7 | 5 | 11 | 0.25 | 3 | \$32.54 | \$ 87 |
| | Small | 1 | 1 | 1 | 2 | 75% | 76 | 4 | 3 | 6 | 0.25 | 1 | \$32.54 | \$ 47 |
| Maritime | Large | 1 | 1 | 1 | 2 | 75% | 36 | 2 | 1 | 3 | 0.25 | 1 | \$32.54 | \$ 22 |
| | Small | 1 | 1 | 1 | 2 | 75% | 32 | 2 | 1 | 2 | 0.25 | 1 | \$32.54 | \$ 19 |
| Construction | Large | 1 | 1 | 1 | 2 | 75% | 1,232 | 62 | 46 | 92 | 0.25 | 23 | \$32.54 | \$ 752 |
| | Small | 1 | 1 | 1 | 2 | 75% | 4,932 | 247 | 185 | 370 | 0.25 | 92 | \$32.54 | \$ 3,009 |
| Government | Large | 1 | 1 | 1 | 2 | 75% | 17 | 1 | 1 | 1 | 0.25 | 0 | \$32.54 | \$ 10 |
| | Small | 1 | 1 | 1 | 2 | 75% | 62 | 3 | 2 | 5 | 0.25 | 1 | \$32.54 | \$ 38 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | |
| General Industry | Large | 6 | 3 | 15 | 2 | 75% | 39 | 2 | 399 | 799 | 0.25 | 200 | \$32.54 | \$ 6,499 |
| | Small | 6 | 1 | 3 | 2 | 75% | 47 | 2 | 32 | 64 | 0.25 | 16 | \$32.54 | \$ 520 |
| Government | State | 0 | 3 | 15 | 2 | 75% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 6 | 1 | 3 | 2 | 75% | 24 | 1 | 16 | 32 | 0.25 | 8 | \$32.54 | \$ 260 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 12 | 3 | 3 | 2 | 75% | 18 | 1 | 71 | 142 | 0.25 | 36 | \$32.54 | \$ 1,155 |
| | Small | 0 | 3 | 3 | 2 | 0% | 0 | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | |
| Industrial rehabilitation | Large | 4 | 1 | 3 | 2 | 75% | 54 | 3 | 24 | 48 | 0.25 | 12 | \$32.54 | \$ 394 |
| | Small | 4 | 1 | 2 | 2 | 75% | 247 | 12 | 74 | 148 | 0.25 | 37 | \$32.54 | \$ 1,205 |
| | State | 1 | 1 | 1 | 2 | 100% | 16 | 1 | 1 | 2 | 0.25 | 0.4 | \$32.54 | \$ 13 |
| | Local | 1 | 1 | 1 | 2 | 100% | 93 | 5 | 5 | 9 | 0.25 | 2 | \$32.54 | \$ 75 |
| Hazardous Waste-site Work | Large | 1 | 1 | 1 | 2 | 75% | 43 | 2 | 2 | 3 | 0.25 | 1 | \$32.54 | \$ 26 |
| | Small | 1 | 1 | 1 | 2 | 75% | 180 | 9 | 7 | 13 | 0.25 | 3 | \$32.54 | \$ 110 |
| | State | 1 | 1 | 1 | 2 | 75% | 1 | 0.04 | 0.03 | 0.1 | 0.25 | 0.02 | \$32.54 | \$ 1 |
| | Local | 1 | 1 | 1 | 2 | 75% | 252 | 13 | 9 | 19 | 0.25 | 5 | \$32.54 | \$ 154 |
| Refractory Brick Restoration | Large | 1 | 1 | 1 | 2 | 0% | 47 | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 0% | 185 | 9 | - | - | 0.25 | - | \$32.54 | \$ - |
| Cement Workers | Large | 4 | 1 | 3 | 2 | 75% | 9,373 | 469 | 4,218 | 8,436 | 0.25 | 2,109 | \$32.54 | \$ 68,628 |
| | Small | 4 | 1 | 2 | 2 | 75% | 96,390 | 4,819 | 28,917 | 57,834 | 0.25 | 14,458 | \$32.54 | \$ 470,498 |
| | State | 4 | 1 | 3 | 2 | 75% | 23 | 1 | 10 | 20 | 0.25 | 5 | \$32.54 | \$ 165 |
| | Local | 4 | 1 | 2 | 2 | 75% | 774 | 39 | 232 | 465 | 0.25 | 116 | \$32.54 | \$ 3,779 |
| SECTOR 32. Pre-Cast Concrete Products | | | | | | | | | | | | | | |
| All | Large | 7 | 1 | 11 | 2 | 75% | 1,094 | 55 | 3,160 | 6,320 | 0.25 | 1,580 | \$32.54 | \$ 51,416 |
| | Small | 5 | 1 | 6 | 2 | 75% | 1,800 | 90 | 2,025 | 4,051 | 0.25 | 1,013 | \$32.54 | \$ 32,953 |
| SECTOR 32A. Ready Mix Concrete | | | | | | | | | | | | | | |
| All | Large | 7 | 1 | 11 | 2 | 75% | 1,642 | 82 | 4,740 | 9,480 | 0.25 | 2,370 | \$32.54 | \$ 77,123 |
| | Small | 5 | 1 | 6 | 2 | 75% | 3,830 | 192 | 4,309 | 8,618 | 0.25 | 2,155 | \$32.54 | \$ 70,112 |
| Total/Average | | | | | 2 | | 193,248 | 9,662 | 54,903 | 109,806 | 0.25 | 27,452 | \$32.54 | \$ 893,288 |

Table 9b

TABLE 9B: Employer Time and Cost to Notify Employees of Semi-Annual Monitoring Results

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

Variables:

NOTETIME = Time, in hours, to notify an employee of the exposure monitoring results by posting .25 hours (15 minutes).
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
SEMI-ANNUALLY = # times per year (semi-annually)
%NOTSEMI = Percent of plants not performing semi-annual monitoring requirements.
%ABOVEAL = Percent of plants that have an employee in at least one job category above the AL.
#PLANTS = Number of plants represented by the model input.

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|---------------------------------|-------|-------|--------|--------|---------------|----------|----------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | |
| Hard Chrome | Large | 1 | 2 | 3 | 2 | 100% | 49.00% | 837 | 2,462 | 4,924 | 0.25 | 1,231 | \$32.54 | \$ 40,058 |
| | Small | 1 | 1 | 3 | 2 | 100% | 49.00% | 1,576 | 2,317 | 4,633 | 0.25 | 1,158 | \$32.54 | \$ 37,694 |
| Job Shop Chrome Plater | Large | 1 | 2 | 3 | 2 | 100% | 11.00% | 403 | 266 | 533 | 0.25 | 133 | \$32.54 | \$ 4,333 |
| | Small | 1 | 1 | 3 | 2 | 100% | 11.00% | 759 | 251 | 501 | 0.25 | 125 | \$32.54 | \$ 4,076 |
| Captive Shop Chrome Plater | Large | 1 | 2 | 3 | 2 | 100% | 14.00% | 550 | 462 | 924 | 0.25 | 231 | \$32.54 | \$ 7,517 |
| | Small | 1 | 1 | 3 | 2 | 100% | 14.00% | 1,035 | 435 | 870 | 0.25 | 217 | \$32.54 | \$ 7,075 |
| Job Shop Plater | Large | 1 | 2 | 3 | 2 | 100% | 10.00% | 403 | 242 | 484 | 0.25 | 121 | \$32.54 | \$ 3,939 |
| | Small | 1 | 1 | 3 | 2 | 100% | 10.00% | 759 | 228 | 456 | 0.25 | 114 | \$32.54 | \$ 3,706 |
| Captive Shop Plater | Large | 1 | 2 | 3 | 2 | 100% | 13.00% | 476 | 372 | 743 | 0.25 | 186 | \$32.54 | \$ 6,047 |
| | Small | 1 | 1 | 3 | 2 | 100% | 13.00% | 897 | 350 | 700 | 0.25 | 175 | \$32.54 | \$ 5,691 |
| Operator | Large | 1 | 2 | 3 | 2 | 100% | 16.00% | 837 | 804 | 1,608 | 0.25 | 402 | \$32.54 | \$ 13,080 |
| | Small | 1 | 1 | 3 | 2 | 100% | 16.00% | 1,576 | 756 | 1,513 | 0.25 | 378 | \$32.54 | \$ 12,308 |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 2 | 2 | 100% | 0.92% | 3,676 | 203 | 406 | 0.25 | 101 | \$32.54 | \$ 3,302 |
| | Small | 1 | 1 | 3 | 2 | 100% | 0.92% | 4,120 | 114 | 227 | 0.25 | 57 | \$32.54 | \$ 1,850 |
| GMAW | Large | 1 | 3 | 2 | 2 | 100% | 0.73% | 2,697 | 118 | 236 | 0.25 | 59 | \$32.54 | \$ 1,922 |
| | Small | 1 | 1 | 3 | 2 | 100% | 0.73% | 3,021 | 66 | 132 | 0.25 | 33 | \$32.54 | \$ 1,077 |
| TIG | Large | 1 | 3 | 2 | 2 | 100% | 0.00% | 817 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0.00% | 915 | - | - | 0.25 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 327 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 366 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 2 | 2 | 100% | 0.00% | 81 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0.00% | 91 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Welding | Large | 1 | 3 | 2 | 2 | 100% | 0.00% | 81 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0.00% | 91 | - | - | 0.25 | - | \$32.54 | \$ - |

Table 9b

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------|-------|-------|--------|--------|---------------|----------|----------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| Resistance Welding | Large | 1 | 3 | 2 | 2 | 100% | 0.00% | 490 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 0.00% | 550 | - | - | 0.25 | - | \$32.54 | \$ - |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 18 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 10 | - | - | 0.25 | - | \$32.54 | \$ - |
| GMAW | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 25 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 14 | - | - | 0.25 | - | \$32.54 | \$ - |
| TIG | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 6 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 3 | - | - | 0.25 | - | \$32.54 | \$ - |
| FCAW | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 121 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 68 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 4 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Welding | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 1 | - | - | 0.25 | - | \$32.54 | \$ - |
| Oxy-fuel Cutting | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 4 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| Air Carbon Arc Cutting | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 2 | 1 | 2 | 100% | 0.00% | 1 | - | - | 0.25 | - | \$32.54 | \$ - |
| Electric Torch Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 16 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 9 | - | - | 0.25 | - | \$32.54 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 209 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 0.00% | 1,673 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 3 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 0.00% | 22 | - | - | 0.25 | - | \$32.54 | \$ - |
| GMAW | Large | 1 | 3 | 1 | 2 | 100% | 0.00% | 42 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 1 | 2 | 100% | 0.00% | 335 | - | - | 0.25 | - | \$32.54 | \$ - |
| Brazing | State | 1 | 3 | 1 | 2 | 100% | 0.00% | 21 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 168 | - | - | 0.25 | - | \$32.54 | \$ - |
| Metallizing | State | 1 | 3 | 1 | 2 | 100% | 0.00% | 4 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 33 | - | - | 0.25 | - | \$32.54 | \$ - |
| GOVERNMENT | | | | | | | | | | | | | | |

Table 9b

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|-------|--------|--------|---------------|----------|----------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| SMAW | State | 1 | 1 | 1 | 2 | 100% | 0.00% | 20 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 614 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | State | 1 | 1 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 8 | - | - | 0.25 | - | \$32.54 | \$ - |
| GMAW | State | 1 | 1 | 1 | 2 | 100% | 0.00% | 4 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 123 | - | - | 0.25 | - | \$32.54 | \$ - |
| Brazing | State | 1 | 1 | 1 | 2 | 100% | 0.00% | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 61 | - | - | 0.25 | - | \$32.54 | \$ - |
| Metallizing | State | 1 | 1 | 1 | 2 | 100% | 0.00% | 1 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 1 | 1 | 1 | 2 | 100% | 0.00% | 12 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 4,929 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 5,019 | - | - | 0.25 | - | \$32.54 | \$ - |
| GMAW | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 3,615 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 3,680 | - | - | 0.25 | - | \$32.54 | \$ - |
| TIG | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 1,095 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 1,115 | - | - | 0.25 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 438 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 446 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 110 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 112 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Welding | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 110 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 112 | - | - | 0.25 | - | \$32.54 | \$ - |
| Resistance Welding | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 657 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 669 | - | - | 0.25 | - | \$32.54 | \$ - |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 38 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 22 | - | - | 0.25 | - | \$32.54 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 55 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 31 | - | - | 0.25 | - | \$32.54 | \$ - |
| TIG | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 13 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 7 | - | - | 0.25 | - | \$32.54 | \$ - |
| FCAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 259 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 147 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 8 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 5 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 3 | - | - | 0.25 | - | \$32.54 | \$ - |

Table 9b

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|--------|--------|---------------|----------|----------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| Plasma Welding | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Oxy-fuel Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 8 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Air Carbon Arc Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 3 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 2 | - | - | 0.25 | - | \$32.54 | \$ - |
| Electric Torch Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Thermal Spray Tungsten Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 34 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 2 | 1 | 2 | 100% | 0.00% | 19 | - | - | 0.25 | - | \$32.54 | \$ - |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 313 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 2,368 | - | - | 0.25 | - | \$32.54 | \$ - |
| Plasma Cutting | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 4 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 31 | - | - | 0.25 | - | \$32.54 | \$ - |
| GMAW | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 62 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 473 | - | - | 0.25 | - | \$32.54 | \$ - |
| Brazing | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 31 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 237 | - | - | 0.25 | - | \$32.54 | \$ - |
| Metallizing | Large | 0 | 3 | 1 | 2 | 100% | 0.00% | 6 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 47 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 3. PAINTING GENERAL INDUSTRY | | | | | | | | | | | | | | |
| Aerospace | Large | 1 | 3 | 3 | 2 | 100% | 28.00% | 50 | 125 | 250 | 0.25 | 62 | \$32.54 | \$ 2,032 |
| | Small | 1 | 1 | 3 | 2 | 100% | 9.00% | 62 | 17 | 34 | 0.25 | 8 | \$32.54 | \$ 274 |
| General Industry (Autobody) | Large | 1 | 1 | 1 | 2 | 100% | 5.00% | 330 | 17 | 33 | 0.25 | 8 | \$32.54 | \$ 269 |
| | Small | 1 | 1 | 1 | 2 | 100% | 5.00% | 1,454 | 73 | 145 | 0.25 | 36 | \$32.54 | \$ 1,183 |
| General Industry (Coil Coating) | Large | 1 | 2 | 3 | 2 | 100% | 8.00% | 101 | 48 | 97 | 0.25 | 24 | \$32.54 | \$ 788 |
| | Small | 1 | 1 | 3 | 2 | 100% | 8.00% | 18 | 4 | 9 | 0.25 | 2 | \$32.54 | \$ 72 |
| Maritime | Large | 2 | 3 | 1 | 2 | 100% | 36.00% | 274 | 593 | 1,185 | 0.25 | 296 | \$32.54 | \$ 9,644 |
| | Small | 0 | 1 | 1 | 2 | 100% | 36.00% | 474 | - | - | 0.25 | - | \$32.54 | \$ - |
| Construction | Large | 1 | 3 | 1 | 2 | 100% | 22.00% | 789 | 521 | 1,042 | 0.25 | 261 | \$32.54 | \$ 8,478 |
| | Small | 1 | 1 | 1 | 2 | 100% | 22.00% | 4,197 | 923 | 1,847 | 0.25 | 462 | \$32.54 | \$ 15,023 |
| Government | State | 1 | 3 | 1 | 2 | 100% | 12.00% | 17 | 6 | 12 | 0.25 | 3 | \$32.54 | \$ 100 |
| | Local | 1 | 1 | 1 | 2 | 100% | 12.00% | 945 | 113 | 227 | 0.25 | 57 | \$32.54 | \$ 1,845 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | |
| | Large | 3 | 3 | 3 | 2 | 100% | 45.00% | 2 | 23 | 45 | 0.25 | 11 | \$32.54 | \$ 368 |

Table 9b

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMP | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|--------|-------|---------------|----------|----------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| All | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | |
| All | Large | 5 | 2 | 3 | 2 | 100% | 71.00% | 2 | 35 | 71 | 0.25 | 18 | \$32.54 | \$ 577 |
| | Small | 1 | 1 | 3 | 2 | 100% | 50.00% | 1 | 1 | 2 | 0.25 | 1 | \$32.54 | \$ 20 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 1 | 3 | 3 | 2 | 100% | 33.00% | 3 | 8 | 15 | 0.25 | 4 | \$32.54 | \$ 125 |
| | Small | 0 | 3 | 0 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | |
| ALL | Large | 6 | 3 | 3 | 2 | 100% | 100.00% | 5 | 251 | 503 | 0.25 | 126 | \$32.54 | \$ 4,091 |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | |
| ALL | Large | 1 | 2 | 3 | 2 | 100% | 13.00% | 78 | 61 | 122 | 0.25 | 31 | \$32.54 | \$ 993 |
| | Small | 1 | 2 | 3 | 2 | 100% | 13.00% | 123 | 96 | 192 | 0.25 | 48 | \$32.54 | \$ 1,560 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 3 | 1 | 9 | 2 | 100% | 69.00% | 2 | 41 | 83 | 0.25 | 21 | \$32.54 | \$ 672 |
| | Small | 2 | 1 | 5 | 2 | 100% | 69.00% | 7 | 51 | 102 | 0.25 | 25 | \$32.54 | \$ 829 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 2 | 3 | 3 | 2 | 100% | 51.00% | 79 | 727 | 1,454 | 0.25 | 363 | \$32.54 | \$ 11,827 |
| | Small | 2 | 1 | 3 | 2 | 100% | 51.00% | 39 | 119 | 237 | 0.25 | 59 | \$32.54 | \$ 1,928 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 1 | 1 | 3 | 2 | 100% | 100.00% | 6 | 18 | 36 | 0.25 | 9 | \$32.54 | \$ 289 |
| | Small | 1 | 1 | 3 | 2 | 100% | 100.00% | 4 | 12 | 24 | 0.25 | 6 | \$32.54 | \$ 193 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 2 | 3 | 3 | 2 | 100% | 100.00% | 1 | 19 | 37 | 0.25 | 9 | \$32.54 | \$ 304 |
| | Small | 0 | 1 | 1 | 2 | 0% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 3 | 3 | 3 | 2 | 100% | 38.00% | 39 | 397 | 795 | 0.25 | 199 | \$32.54 | \$ 6,464 |
| | Small | 1 | 1 | 3 | 2 | 100% | 38.00% | 12 | 14 | 28 | 0.25 | 7 | \$32.54 | \$ 230 |
| Carbon Steel | Large | 0 | 3 | 3 | 2 | 100% | 0.00% | 116 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 37 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | |
| Reshaping | Large | 4 | 1 | 3 | 2 | 100% | 63.00% | 33 | 251 | 502 | 0.25 | 126 | \$32.54 | \$ 4,084 |
| | Small | 2 | 1 | 3 | 2 | 100% | 63.00% | 31 | 118 | 237 | 0.25 | 59 | \$32.54 | \$ 1,924 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | |
| All | Large | 6 | 3 | 5 | 2 | 100% | 100.00% | 152 | 13,694 | 27,387 | 0.25 | 6,847 | \$32.54 | \$ 222,805 |
| | Small | 5 | 1 | 5 | 2 | 100% | 100.00% | 111 | 2,766 | 5,533 | 0.25 | 1,383 | \$32.54 | \$ 45,011 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 6 | 1 | 21 | 2 | 100% | 38.00% | 2 | 120 | 239 | 0.25 | 60 | \$32.54 | \$ 1,947 |
| | Small | 6 | 1 | 7 | 2 | 100% | 38.00% | 1 | 13 | 27 | 0.25 | 7 | \$32.54 | \$ 216 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | |

Table 9b

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|--------|--------|---------------|----------|----------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| All | Large | 0 | 1 | 3 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 1 | 1 | 3 | 2 | 100% | 27.00% | 5 | 4 | 8 | 0.25 | 2 | \$32.54 | \$ 61 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 3 | 2 | 100% | 0.00% | 212 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 1,600 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 3 | 2 | 100% | 0.00% | 307 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 2 | 2 | 100% | 0.00% | 623 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | |
| General Industry | Large | 1 | 3 | 12 | 2 | 100% | 25.00% | 8 | 70 | 139 | 0.25 | 35 | \$32.54 | \$ 1,133 |
| | Small | 0 | 1 | 4 | 2 | 100% | 0.00% | 24 | - | - | 0.25 | - | \$32.54 | \$ - |
| Fiber, Flat, Container Glass | Large | 3 | 1 | 1 | 2 | 100% | 20.00% | 111 | 67 | 133 | 0.25 | 33 | \$32.54 | \$ 1,082 |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 6 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | |
| All | Large | 0 | 3 | 2 | 2 | 100% | 0.00% | 78 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 2 | 2 | 100% | 0.00% | 312 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | |
| Catalyst Users | Large | 2 | 3 | 3 | 2 | 100% | 9.00% | 193 | 312 | 624 | 0.25 | 156 | \$32.54 | \$ 5,075 |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 0 | 3 | 3 | 2 | 100% | 0.00% | 25 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 5 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 1 | 15 | 2 | 100% | 0.00% | 5 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 0 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 1 | 2 | 2 | 100% | 0.00% | 143 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 2 | 2 | 100% | 0.00% | 76 | - | - | 0.25 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 1 | 1 | 2 | 100% | 0.00% | 36 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 32 | - | - | 0.25 | - | \$32.54 | \$ - |
| Construction | Large | 1 | 1 | 1 | 2 | 100% | 22.00% | 1,232 | 271 | 542 | 0.25 | 136 | \$32.54 | \$ 4,411 |
| | Small | 1 | 1 | 1 | 2 | 100% | 22.00% | 4,932 | 1,085 | 2,170 | 0.25 | 543 | \$32.54 | \$ 17,656 |
| Government | State | 1 | 1 | 1 | 2 | 100% | 22.00% | 17 | 4 | 8 | 0.25 | 2 | \$32.54 | \$ 61 |
| | Local | 1 | 1 | 1 | 2 | 100% | 22.00% | 62 | 14 | 27 | 0.25 | 7 | \$32.54 | \$ 221 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 3 | 15 | 2 | 100% | 0.00% | 39 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 3 | 2 | 100% | 0.00% | 47 | - | - | 0.25 | - | \$32.54 | \$ - |
| Government | State | 0 | 3 | 15 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 0 | 1 | 3 | 2 | 100% | 0.00% | 24 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | |

Table 9b

| VARIABLES | SIZE | JOBAL | SHIFTS | #SAMPs | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | RESPONDENTS | RESPONSES | NOTETIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------|-------|-------|--------|--------|---------------|----------|----------|---------|---------------|---------------|-------------|---------------|----------------|-------------------|
| All | Large | 0 | 3 | 3 | 2 | 100% | 0.00% | 18 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 3 | 3 | 2 | 100% | 0.00% | 0 | - | - | 0.25 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | 0 | 1 | 1 | 2 | 100% | 0.00% | 54 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 247 | - | - | 0.25 | - | \$32.54 | \$ - |
| | State | 0 | 1 | 1 | 2 | 100% | 0.00% | 16 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 0 | 1 | 1 | 2 | 100% | 0.00% | 93 | - | - | 0.25 | - | \$32.54 | \$ - |
| Hazardous Waste-site Work | Large | 0 | 1 | 1 | 2 | 100% | 0.00% | 43 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 0.00% | 180 | - | - | 0.25 | - | \$32.54 | \$ - |
| | State | 0 | 1 | 1 | 2 | 100% | 0.00% | 1 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Local | 0 | 1 | 1 | 2 | 100% | 0.00% | 252 | - | - | 0.25 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 0 | 1 | 1 | 2 | 100% | 60.00% | 47 | - | - | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 1 | 1 | 2 | 100% | 60.00% | 185 | - | - | 0.25 | - | \$32.54 | \$ - |
| Average/Total | | | | | | 2 | | | 32,546 | 65,092 | 0.25 | 16,273 | \$32.54 | \$ 529,523 |

Table 10

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.

BURDEN HOURS = (QLFITTIME + QLFITTECH) * QLFITEMP * 1-%FITBASE * #PLANTS

COST = BURDEN HOURS * NONSUPEWAGE

Variables:

QLFITTIME = Time, in hours, for an employee to be qualitative fit-tested

QLFITTECH = Time, in hours, for a technician to conduct one qualitative fit test

QLFITEMP = Number of employees requiring annual qualitative fit-testing

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

NONSUPEWAGE = Non-Supervisory wage rate

#PLANTS = Number of plants represented by the model input

| VARIABLES | SIZE | QLFITEMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QLFITTIME | QLFITTECH | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|----------|------------|---------|-------------|-----------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | |
| All | Large | 5,063 | 71% | 1 | 3,595 | 3,595 | 0.25 | 0.25 | 1,797 | \$32.54 | \$ 58,490 |
| | Small | 1,104 | 97% | 1 | 1,071 | 1,071 | 0.25 | 0.25 | 535 | \$32.54 | \$ 17,422 |
| SECTOR 2A. WELDING | | | | | | | | | | | |
| General Industry | Large | 2,968 | 81% | 1 | 2,404 | 2,404 | 0.25 | 0.25 | 1,202 | \$32.54 | \$ 39,117 |
| | Small | 2,170 | 98% | 1 | 2,127 | 2,127 | 0.25 | 0.25 | 1,063 | \$32.54 | \$ 34,606 |
| Maritime | Large | 2,422 | 55% | 1 | 1,332 | 1,332 | 0.25 | 0.25 | 666 | \$32.54 | \$ 21,678 |
| | Small | 57 | 95% | 1 | 54 | 54 | 0.25 | 0.25 | 27 | \$32.54 | \$ 885 |
| Construction | Large | 3,354 | 88% | 1 | 2,951 | 2,951 | 0.25 | 0.25 | 1,476 | \$32.54 | \$ 48,022 |
| | Small | 2,593 | 99% | 1 | 2,567 | 2,567 | 0.25 | 0.25 | 1,284 | \$32.54 | \$ 41,773 |
| Government | State | 15 | 88% | 1 | 13 | 13 | 0.25 | 0.25 | 7 | \$32.54 | \$ 216 |
| | Local | 76 | 99% | 1 | 76 | 76 | 0.25 | 0.25 | 38 | \$32.54 | \$ 1,230 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | |
| General Industry | Large | 718 | 81% | 1 | 582 | 582 | 0.25 | 0.25 | 291 | \$32.54 | \$ 9,468 |
| | Small | 2,170 | 98% | 1 | 2,127 | 2,127 | 0.25 | 0.25 | 1,063 | \$32.54 | \$ 34,606 |
| Maritime | Large | 17 | 55% | 1 | 9 | 9 | 0.25 | 0.25 | 5 | \$32.54 | \$ 153 |
| | Small | 0 | 95% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Construction | Large | 684 | 88% | 1 | 602 | 602 | 0.25 | 0.25 | 301 | \$32.54 | \$ 9,797 |
| | Small | 551 | 99% | 1 | 545 | 545 | 0.25 | 0.25 | 273 | \$32.54 | \$ 8,869 |
| Government | State | 15 | 88% | 1 | 13 | 13 | 0.25 | 0.25 | 7 | \$32.54 | \$ 216 |
| | Local | 76 | 99% | 1 | 76 | 76 | 0.25 | 0.25 | 38 | \$32.54 | \$ 1,230 |
| SECTOR 3. PAINTING | | | | | | | | | | | |
| General Industry (Average) | Large | 46 | 81% | 50 | 1,841 | 1,841 | 0.25 | 0.25 | 921 | \$32.54 | \$ 29,962 |

Table 10

| VARIABLES | SIZE | QLFITEMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QLFITIME | QLFITTECH | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|------------|---------|-------------|-----------|----------|-----------|--------------|-------------|--------------|
| (Aerospace) | Small | 0 | 98% | 62 | 8 | 8 | 0.25 | 0.25 | 4 | \$32.54 | \$ 128 |
| General Industry (Auto Body Repair) | Large | 1 | 81% | 330 | 246 | 246 | 0.25 | 0.25 | 123 | \$32.54 | \$ 3,995 |
| | Small | 0 | 98% | 1,454 | 301 | 301 | 0.25 | 0.25 | 150 | \$32.54 | \$ 4,894 |
| Coil Coating | Large | 2 | 81% | 101 | 150 | 150 | 0.25 | 0.25 | 75 | \$32.54 | \$ 2,441 |
| | Small | 1 | 98% | 18 | 17 | 17 | 0.25 | 0.25 | 8 | \$32.54 | \$ 269 |
| Maritime | Large | 3 | 55% | 274 | 409 | 409 | 0.25 | 0.25 | 205 | \$32.54 | \$ 6,655 |
| | Small | 1 | 95% | 474 | 424 | 424 | 0.25 | 0.25 | 212 | \$32.54 | \$ 6,896 |
| Construction | Large | 486 | 0% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 612 | 0% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | State | 45 | 0% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Local | 195 | 0% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | |
| All | Large | 7 | 37% | 2 | 5 | 5 | 0.25 | 0.25 | 2 | \$32.54 | \$ 78 |
| | Small | 0 | 93% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | |
| All | Large | 7 | 37% | 2 | 4 | 4 | 0.25 | 0.25 | 2 | \$32.54 | \$ 70 |
| | Small | 1 | 93% | 1 | 1 | 1 | 0.25 | 0.25 | 0 | \$32.54 | \$ 13 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | |
| All | Large | 2 | 37% | 3 | 2 | 2 | 0.25 | 0.25 | 1 | \$32.54 | \$ 31 |
| | Small | 0 | 93% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | |
| All | Large | 11 | 37% | 5 | 19 | 19 | 0.25 | 0.25 | 9 | \$32.54 | \$ 308 |
| | Small | 0 | 93% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | |
| All | Large | 1 | 37% | 78 | 29 | 29 | 0.25 | 0.25 | 14 | \$32.54 | \$ 471 |
| | Small | 0 | 93% | 123 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | |
| All | Large | 9 | 37% | 2 | 7 | 7 | 0.25 | 0.25 | 4 | \$32.54 | \$ 120 |
| | Small | 2 | 93% | 7 | 14 | 14 | 0.25 | 0.25 | 7 | \$32.54 | \$ 224 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 332 | 54% | 1 | 179 | 179 | 0.25 | 0.25 | 90 | \$32.54 | \$ 2,919 |
| | Small | 34 | 95% | 1 | 32 | 32 | 0.25 | 0.25 | 16 | \$32.54 | \$ 519 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | |
| All | Large | 3 | 37% | 6 | 7 | 7 | 0.25 | 0.25 | 3 | \$32.54 | \$ 107 |
| | Small | 1 | 93% | 4 | 4 | 4 | 0.25 | 0.25 | 2 | \$32.54 | \$ 60 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | |
| | Large | 8 | 56% | 1 | 5 | 5 | 0.25 | 0.25 | 2 | \$32.54 | \$ 76 |

Table 10

| VARIABLES | SIZE | QLFITMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QLFITIME | QLFITTECH | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------|------------|---------|-------------|-----------|----------|-----------|--------------|-------------|--------------|
| All | Small | 0 | 95% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 31 | 56% | 39 | 672 | 672 | 0.25 | 0.25 | 336 | \$32.54 | \$ 10,937 |
| | Small | 1 | 95% | 12 | 12 | 12 | 0.25 | 0.25 | 6 | \$32.54 | \$ 192 |
| Carbon Steel | Large | 1 | 56% | 116 | 65 | 65 | 0.25 | 0.25 | 33 | \$32.54 | \$ 1,058 |
| | Small | 1 | 95% | 37 | 35 | 35 | 0.25 | 0.25 | 17 | \$32.54 | \$ 565 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | |
| Reshaping Industry | Large | 3 | 56% | 33 | 56 | 56 | 0.25 | 0.25 | 28 | \$32.54 | \$ 908 |
| | Small | 1 | 95% | 31 | 30 | 30 | 0.25 | 0.25 | 15 | \$32.54 | \$ 484 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | |
| All | Large | 16 | 56% | 152 | 1,363 | 1,363 | 0.25 | 0.25 | 682 | \$32.54 | \$ 22,181 |
| | Small | 4 | 95% | 111 | 420 | 420 | 0.25 | 0.25 | 210 | \$32.54 | \$ 6,842 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | |
| All | Large | 27 | 37% | 2 | 25 | 25 | 0.25 | 0.25 | 12 | \$32.54 | \$ 406 |
| | Small | 6 | 93% | 1 | 5 | 5 | 0.25 | 0.25 | 2 | \$32.54 | \$ 76 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 37% | - | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 5 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | |
| All | Large | 0 | 92% | 212 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1,600 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | |
| All | Large | 0 | 89% | 307 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 623 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | |
| General Industry | Large | 1 | 76% | 8 | 6 | 6 | 0.25 | 0.25 | 3 | \$32.54 | \$ 96 |
| | Small | 0 | 97% | 24 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Fiber, Flat, and Container Glass | Large | 12 | 76% | 111 | 1,011 | 1,011 | 0.25 | 0.25 | 506 | \$32.54 | \$ 16,451 |
| | Small | 3 | 97% | 6 | 19 | 19 | 0.25 | 0.25 | 9 | \$32.54 | \$ 305 |
| SECTOR 22. PRINTING | | | | | | | | | | | |
| All | Large | 0 | 98% | 78 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99.70% | 312 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | |
| Chromium Catalyst Users | Large | 1 | 67% | 1 | 1 | 1 | 0.25 | 0.25 | 0.3 | \$32.54 | \$ 11 |
| | Small | 0 | 97% | - | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Catalyst Service Companies | Large | 0 | 0% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |

Table 10

| VARIABLES | SIZE | QLFITEMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QLFITIME | QLFITTECH | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|------------|--------------|---------------|---------------|-------------|-------------|---------------|----------------|-------------------|
| Companies | Small | 0 | 0% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | |
| ALL | Large | 0 | 76% | 5 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 97% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | |
| General Industry | Large | 0 | 94% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 55% | 36 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 32 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Construction | Large | 0 | 88% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Government | State | 0 | 88% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Local | 0 | 88% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | |
| All | Large | 5 | 59% | 39 | 116 | 116 | 0.25 | 0.25 | 58 | \$32.54 | \$ 1,893 |
| | Small | 1 | 96% | 47 | 45 | 45 | 0.25 | 0.25 | 23 | \$32.54 | \$ 739 |
| Government | State | 0 | 59% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Local | 0 | 96% | 24 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 0 | 56% | 18 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 0 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | |
| Industrial Rehabilitation and Maintenance | Large | 0 | 88% | 54 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 247 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | State | 0 | 88% | 16 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Local | 0 | 88% | 93 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Hazardous Waste-Site Work | Large | 0 | 88% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | State | 0 | 88% | 1 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 0 | 88% | 47 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 185 | - | - | 0.25 | 0.25 | - | \$32.54 | \$ - |
| Average/Total | | | | 7,697 | 27,728 | 27,728 | 0.25 | 0.25 | 13,864 | \$32.54 | \$ 451,135 |

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.

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

Variables:

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 | | Size | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--------------------------------------|-------|---------|------------|----------|------------|---------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | |
| ALL | Large | \$ 0.10 | 5,063 | 71% | 1 | \$352 | |
| | Small | \$ 0.10 | 1,104 | 97% | 1 | \$105 | |
| SECTOR 2A. WELDING | | | | | | | |
| GENERAL INDUSTRY | Large | \$ 0.10 | 2,968 | 81% | 1 | \$235 | |
| | Small | \$ 0.10 | 2,170 | 98% | 1 | \$208 | |
| MARITIME | Large | \$ 0.10 | 2,422 | 55% | 1 | \$130 | |
| | Small | \$ 0.10 | 57 | 95% | 1 | \$5 | |
| CONSTRUCTION | Large | \$ 0.10 | 3,354 | 88% | 1 | \$289 | |
| | Small | \$ 0.10 | 2,593 | 99% | 1 | \$251 | |
| GOVERNMENT | State | \$ 0.10 | 15 | 88% | 1 | \$1 | |
| | Local | \$ 0.10 | 76 | 99% | 1 | \$7 | |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | |
| GENERAL INDUSTRY | Large | \$ 0.10 | 718 | 81% | 1 | \$57 | |
| | Small | \$ 0.10 | 2,170 | 98% | 1 | \$208 | |
| MARITIME | Large | \$ 0.10 | 17 | 55% | 1 | \$1 | |
| | Small | \$ 0.10 | 0 | 95% | 1 | \$0 | |
| CONSTRUCTION | Large | \$ 0.10 | 684 | 88% | 1 | \$59 | |
| | Small | \$ 0.10 | 551 | 99% | 1 | \$53 | |
| GOVERNMENT | State | \$ 0.10 | 15 | 88% | 1 | \$1 | |
| | Local | \$ 0.10 | 76 | 99% | 1 | \$7 | |
| SECTOR 3. PAINTING | | | | | | | |
| GENERAL INDUSTRY (AEROSPACE) | Large | \$ 0.10 | 46 | 81% | 50 | \$180 | |
| | Small | \$ 0.10 | 0 | 98% | 62 | \$1 | |

Table 11

| Variables | Size | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|------------|----------|------------|---------|--------------|
| GENERAL INDUSTRY (AUTO BODY REPAIR) | Large | \$ 0.10 | 1 | 81% | 330 | \$24 |
| | Small | \$ 0.10 | 0 | 98% | 1,454 | \$29 |
| COIL COATING | Large | \$ 0.10 | 2 | 81% | 101 | \$15 |
| | Small | \$ 0.10 | 1 | 98% | 18 | \$2 |
| MARITIME | Large | \$ 0.10 | 3 | 55% | 274 | \$40 |
| | Small | \$ 0.10 | 1 | 95% | 474 | \$41 |
| CONSTRUCTION | Large | \$ 0.10 | 486 | 0% | 1 | \$0.00 |
| | Small | \$ 0.10 | 612 | 0% | 1 | \$0.00 |
| | State | \$ 0.10 | 45 | 0% | 1 | \$0.00 |
| | Local | \$ 0.10 | 195 | 0% | 1 | \$0.00 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | |
| ALL | Large | \$ 0.10 | 7 | 37% | 2 | \$0.47 |
| | Small | \$ 0.10 | 0 | 93% | 0 | \$0.00 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | |
| ALL | Large | \$ 0.10 | 7 | 37% | 2 | \$0.42 |
| | Small | \$ 0.10 | 1 | 93% | 1 | \$0.08 |
| SECTOR 6. CCA PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 2 | 37% | 3 | \$0.19 |
| | Small | \$ 0.10 | 0 | 93% | 0 | \$0.00 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 11 | 37% | 5 | \$2 |
| | Small | \$ 0.10 | 0 | 93% | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 1 | 37% | 78 | \$3 |
| | Small | \$ 0.10 | 0 | 93% | 123 | \$0 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 9 | 37% | 2 | \$1 |
| | Small | \$ 0.10 | 2 | 93% | 7 | \$1 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | |
| ALL | Large | \$ 0.10 | 332 | 54% | 1 | \$18 |
| | Small | \$ 0.10 | 34 | 95% | 1 | \$3 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 3 | 37% | 6 | \$1 |
| | Small | \$ 0.10 | 1 | 93% | 4 | \$0 |

Table 11

| Variables | Size | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|------------|----------|------------|---------|--------------|
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 8 | 56% | 1 | \$0 |
| | Small | \$ 0.10 | 0 | 95% | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | |
| ALLOY AND STAINLESS STEEL | Large | \$ 0.10 | 31 | 56% | 39 | \$66 |
| | Small | \$ 0.10 | 1 | 95% | 12 | \$1 |
| CARBON STEEL | Large | \$ 0.10 | 1 | 56% | 116 | \$6 |
| | Small | \$ 0.10 | 1 | 95% | 37 | \$3 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | |
| RESHAPING INDUSTRY | Large | \$ 0.10 | 3 | 56% | 33 | \$5 |
| | Small | \$ 0.10 | 1 | 95% | 31 | \$3 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | |
| ALL | Large | \$ 0.10 | 16 | 56% | 152 | \$133 |
| | Small | \$ 0.10 | 4 | 95% | 111 | \$41 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 27 | 37% | 2 | \$2 |
| | Small | \$ 0.10 | 6 | 93% | 1 | \$0 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 0 | 37% | 0 | \$0 |
| | Small | \$ 0.10 | 0 | 93% | 5 | \$0 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | |
| ALL | Large | \$ 0.10 | 0 | 92% | 212 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | |
| ALL | Large | \$ 0.10 | 0 | 89% | 307 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | |
| GENERAL INDUSTRY | Large | \$ 0.10 | 1 | 76% | 8 | \$1 |
| | Small | \$ 0.10 | 0 | 97% | 24 | \$0 |
| FIBER, FLAT AND CONTAINER GLASS | Large | \$ 0.10 | 12 | 76% | 111 | \$99 |
| | Small | \$ 0.10 | 3 | 97% | 6 | \$2 |
| SECTOR 22. PRINTING | | | | | | |
| ALL | Large | \$ 0.10 | 0 | 98% | 78 | \$0 |
| | Small | \$ 0.10 | 0 | 100% | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | |

Table 11

| Variables | | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|------------|----------|------------|---------|--------------|
| | Size | | | | | |
| CHROMIUM CATALYST USERS | Large | \$ 0.10 | 1 | 67% | 1 | \$0 |
| | Small | \$ 0.10 | 0 | 97% | 0 | \$0 |
| CHROMIUM CATALYST COMPANIES | Large | \$ 0.10 | 0 | 67% | 1 | \$0 |
| | Small | \$ 0.10 | 0 | 97% | 1 | \$0 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | |
| ALL | Large | \$ 0.10 | 0 | 76% | 5 | \$0 |
| | Small | \$ 0.10 | 0 | 97% | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | |
| GENERAL INDUSTRY | Large | \$ 0.10 | 0 | 94% | 1 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 1 | \$0 |
| MARITIME | Large | \$ 0.10 | 0 | 55% | 36 | \$0 |
| | Small | \$ 0.10 | 0 | 95% | 32 | \$0 |
| CONSTRUCTION | Large | \$ 0.10 | 0 | 88% | 1 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 1 | \$0 |
| GOVERNMENT | State | \$ 0.10 | 0 | 88% | 1 | \$0 |
| | Local | \$ 0.10 | 0 | 88% | 1 | \$0 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | |
| ALL | Large | \$ 0.10 | 5 | 59% | 39 | \$11 |
| | Small | \$ 0.10 | 1 | 96% | 47 | \$4 |
| GOVERNMENT | State | \$ 0.10 | 0 | 59% | 0 | \$0 |
| | Local | \$ 0.10 | 0 | 96% | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | |
| ALL | Large | \$ 0.10 | 0 | 56% | 18 | \$0 |
| | Small | \$ 0.10 | 0 | 95% | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | \$ 0.10 | 0 | 88% | 54 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 247 | \$0 |
| | State | \$ 0.10 | 0 | 88% | 16 | \$0 |
| | Local | \$ 0.10 | 0 | 88% | 93 | \$0 |
| HAZARDOUS WASTE-SITE WORK | Large | \$ 0.10 | 0 | 88% | 1 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 1 | \$0 |
| | State | \$ 0.10 | 0 | 88% | 1 | \$0 |
| | Local | \$ 0.10 | 0 | 88% | 1 | \$0 |

Table 11

| Variables | Size | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|------------------------------|-------|------------|----------|------------|--------------|-----------------|
| REFRACTORY BRICK RESTORATION | Large | \$ 0.10 | 0 | 88% | 47 | \$0 |
| | Small | \$ 0.10 | 0 | 99% | 185 | \$0 |
| Total | | | | | 7,697 | \$ 2,714 |

Table 12

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

Variables:

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

| VARIABLES | SIZE | QNFITTEMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QNFITTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|-----------|------------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| All | Large | 0 | 71% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 97% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | |
| General Industry | Large | 0 | 81% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 98% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 55% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Construction | Large | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Government | State | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 99% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| General Industry | Large | 0 | 81% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 98% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 55% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Construction | Large | 0 | 82% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 3. PAINTING | | | | | | | | | | |
| General Industry (Aerospace) | Large | 0 | 81% | 50 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 98% | 62 | - | - | 0.5 | - | \$32.54 | \$ - |

Table 12

| VARIABLES | SIZE | QNFITEMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QNFITIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|------------|---------|-------------|-----------|----------|--------------|-------------|--------------|
| General Industry (Autobody Repair) | Large | 0 | 81% | 330 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 98% | 1,454 | - | - | 0.5 | - | \$32.54 | \$ - |
| Coil Coating | Large | 0 | 81% | 101 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 98% | 18 | - | - | 0.5 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 55% | 274 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 474 | - | - | 0.5 | - | \$32.54 | \$ - |
| Construction | Large | 0 | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Government | State | 0 | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 0% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| All | Large | 0 | 37% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| All | Large | 0 | 37% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 3 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 5 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 78 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 123 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 7 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 0 | 54% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 6 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 4 | - | - | 0.5 | - | \$32.54 | \$ - |

Table 12

| VARIABLES | SIZE | QNFITMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QNFITTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------|------------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 56% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 0 | 56% | 39 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 12 | - | - | 0.5 | - | \$32.54 | \$ - |
| Carbon Steel | Large | 0 | 56% | 116 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 37 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping Industry | Large | 0 | 56% | 33 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 31 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| All | Large | 0 | 56% | 152 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 111 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 2 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 93% | 5 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| All | Large | 0 | 92% | 212 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1,600 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| All | Large | 0 | 89% | 307 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 623 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 76% | 8 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 97% | 24 | - | - | 0.5 | - | \$32.54 | \$ - |
| Carbon, Flat, and Container Glass | Large | 0 | 76% | 111 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 97% | 6 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | | |
| All | Large | 0 | 98% | 78 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 100% | 312 | - | - | 0.5 | - | \$32.54 | \$ - |

Table 12

| VARIABLES | SIZE | QNFITMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QNFITTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------|------------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| Chromium Catalyst Users | Large | 0 | 67% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 97% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| Chromium Catalyst Companies | Large | 128 | 67% | 1 | 85 | 85 | 0.5 | 43 | \$32.54 | \$ 1,391 |
| | Small | 12 | 97% | 1 | 11 | 11 | 0.5 | 6 | \$32.54 | \$ 186 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 76% | 5 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 97% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | 0 | 94% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 55% | 36 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 32 | - | - | 0.5 | - | \$32.54 | \$ - |
| Construction | Large | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Government | State | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| All | Large | 0 | 59% | 39 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 96% | 47 | - | - | 0.5 | - | \$32.54 | \$ - |
| Government | State | 0 | 59% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 96% | 24 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 0 | 56% | 18 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 95% | 0 | - | - | 0.5 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation and Maintenance | Large | 0 | 88% | 54 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 247 | - | - | 0.5 | - | \$32.54 | \$ - |
| | State | 0 | 88% | 16 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Local | 0 | 88% | 93 | - | - | 0.5 | - | \$32.54 | \$ - |
| Hazardous Waste-Site Work | Large | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| | State | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |

Table 12

| VARIABLES | SIZE | QNFITEMP | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | QNFITIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|------------------------------|-------|----------|------------|--------------|-------------|-----------|------------|--------------|----------------|-----------------|
| | Local | 0 | 88% | 1 | - | - | 0.5 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 0 | 88% | 47 | - | - | 0.5 | - | \$32.54 | \$ - |
| | Small | 0 | 99% | 185 | - | - | 0.5 | - | \$32.54 | \$ - |
| Average/Total | | | | 7,695 | 97 | 97 | 0.5 | 49 | \$32.54 | \$ 1,594 |

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.

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

Variables:

QNFITCOST = 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

| 0.00 | | | | | | | |
|--------------------------------------|-------|-----------|------------|----------|------------|---------|--------------|
| Variables | Size | QNFITCOST | # of Hours | QNFITEMP | 1-%FITBASE | #PLANTS | Item 13 COST |
| SECTOR 1. ELECTROPLATING | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 71% | 1 | \$ - |
| | Small | \$0 | 0 | 0 | 97% | 1 | \$ - |
| SECTOR 2A. WELDING | | | | | | | |
| GENERAL INDUSTRY | Large | \$84 | 2 | 0 | 81% | 1 | \$ - |
| | Small | \$84 | 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 2B. MILD STEEL WELDING | | | | | | | |
| GENERAL INDUSTRY | Large | \$84 | 2 | 0 | 81% | 1 | \$ - |
| | Small | \$84 | 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% | 62 | \$ - |
| | Large | \$0 | 0 | 0 | 81% | 330 | \$ - |

Table 13

| Variables | Size | QNFITCOST | # of Hours | QNFITEMP | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|-----------|------------|----------|------------|---------|--------------|
| GENERAL INDUSTRY AUTOBODY | Small | \$0 | 0 | 0 | 98% | 1,454 | \$ - |
| COIL COATING | Large | \$0 | 0 | 0 | 81% | 101 | \$ - |
| | Small | \$0 | 0 | 0 | 98% | 18 | \$ - |
| MARITIME | Large | \$0 | 0 | 0 | 55% | 274 | \$ - |
| | Small | \$0 | 0 | 0 | 95% | 474 | \$ - |
| CONSTRUCTION | Large | \$0 | 0 | 0 | 0% | 1 | \$ - |
| | Small | \$0 | 0 | 0 | 0% | 1 | \$ - |
| 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% | 78 | \$ - |
| | Small | \$0 | 0 | 0 | 93% | 123 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 37% | 2 | \$ - |
| | Small | \$0 | 0 | 0 | 93% | 7 | \$ - |
| 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% | 6 | \$ - |

Table 13

| Variables | Size | QNFITCOST | # of Hours | QNFITEMP | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|-----------|------------|----------|------------|---------|--------------|
| | Small | \$0 | 0 | 0 | 93% | 4 | \$ - |
| 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% | 39 | \$ - |
| | Small | \$0 | 0 | 0 | 95% | 12 | \$ - |
| CARBON STEEL | Large | \$0 | 0 | 0 | 56% | 116 | \$ - |
| | Small | \$0 | 0 | 0 | 95% | 37 | \$ - |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | |
| RESHAPING | Large | \$0 | 0 | 0 | 56% | 33 | \$ - |
| | Small | \$0 | 0 | 0 | 95% | 31 | \$ - |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 56% | 152 | \$ - |
| | Small | \$0 | 0 | 0 | 95% | 111 | \$ - |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 37% | 2 | \$ - |
| | 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% | 212 | \$ - |
| | Small | \$0 | 0 | 0 | 99% | 1,600 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 89% | 307 | \$ - |
| | Small | \$0 | 0 | 0 | 99% | 623 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 76% | 8 | \$ - |
| | Small | \$0 | 0 | 0 | 97% | 24 | \$ - |
| Carbon, Flat, and Container Glass | Large | \$0 | 0 | 0 | 76% | 111 | \$ - |
| | Small | \$0 | 0 | 0 | 97% | 6 | \$ - |
| SECTOR 22. PRINTING | | | | | | | |
| | Large | \$0 | 0 | 0 | 98% | 78 | \$ - |

Table 13

| Variables | Size | QNFITCOST | # of Hours | QNFITEMP | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|-----------|------------|----------|------------|---------|--------------|
| ALL | Small | \$0 | 0 | 0 | 100% | 312 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | |
| Chromium Catalyst Users | Large | \$0 | 0 | 0 | 67% | 1 | \$ - |
| | Small | \$0 | 0 | 0 | 97% | 0 | \$ - |
| Chromium Catalyst Companies | Large | \$151 | 4 | 35 | 100% | 1 | \$ 5,350 |
| | Small | \$14 | 0 | 35 | 100% | 1 | \$ 495 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 76% | 5 | \$ - |
| | 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% | 36 | \$ - |
| | Small | \$0 | 0 | 0 | 95% | 32 | \$ - |
| 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 WASTER INCINERATION | | | | | | | |
| ALL | Large | \$0 | 0 | 0 | 59% | 39 | \$ - |
| | Small | \$0 | 0 | 0 | 96% | 47 | \$ - |
| GOVERNMENT | State | \$0 | 0 | 0 | 59% | 0 | \$ - |
| | Local | \$0 | 0 | 0 | 96% | 24 | \$ - |
| 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% | 54 | \$ - |
| | Small | \$0 | 0 | 0 | 99% | 247 | \$ - |
| | State | \$0 | 0 | 0 | 88% | 16 | \$ - |
| | Local | \$0 | 0 | 0 | 88% | 93 | \$ - |
| | Large | \$0 | 0 | 0 | 88% | 1 | \$ - |

Table 13

| Variables | Size | QNFITCOST | # of Hours | QNFITEMP | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|-----------|------------|----------|------------|--------------|-----------------|
| HAZARDOUS WASTE-SITE WORK | 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% | 47 | \$ - |
| | Small | \$0 | 0 | 0 | 99% | 185 | \$ - |
| Total | | | | | | 7,695 | \$ 5,846 |

Table 14

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.

BURDEN 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 (10 mins)

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 | SIZE | EMPAL | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | MEDHISTTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|-------|------------|---------|-------------|-----------|-------------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| All | Large | 5,063 | 71% | 1 | 3,595 | 3,595 | 0.17 | 599 | \$32.54 | \$19,497 |
| | Small | 1,104 | 97% | 1 | 1,071 | 1,071 | 0.17 | 178 | \$32.54 | \$5,807 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| General Industry | Large | 0 | 81% | 1 - | - | - | 0.17 - | - | \$32.54 | - |
| | Small | 0 | 98% | 1 - | - | - | 0.17 - | - | \$32.54 | - |
| Maritime | Large | 2,422 | 55% | 1 | 1,332 | 1,332 | 0.17 | 222 | \$32.54 | \$7,226 |
| | Small | 57 | 95% | 1 | 54 | 54 | 0.17 | 9 | \$32.54 | \$295 |
| Construction | Large | 3,354 | 88% | 1 | 2,951 | 2,951 | 0.17 | 492 | \$32.54 | \$16,007 |
| | Small | 2,593 | 99% | 1 | 2,567 | 2,567 | 0.17 | 428 | \$32.54 | \$13,924 |
| Government | State | 15 | 88% | 1 | 13 | 13 | 0.17 | 2 | \$32.54 | \$72 |
| | Local | 76 | 99% | 1 | 76 | 76 | 0.17 | 13 | \$32.54 | \$410 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| General Industry | Large | 0 | 55% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 95% | 1 | - | - | 0.17 | - | \$32.54 | - |
| Maritime | Large | 17 | 88% | 1 | 15 | 15 | 0.17 | 3 | \$32.54 | \$82 |
| | Small | 0 | 99% | 1 | - | - | 0.17 | - | \$32.54 | - |
| Construction | Large | 684 | 88% | 1 | 602 | 602 | 0.17 | 100 | \$32.54 | \$3,266 |
| | Small | 551 | 99% | 1 | 545 | 545 | 0.17 | 91 | \$32.54 | \$2,956 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| General Industry (Aerospace) | Large | 32 | 81% | 50 | 1,289 | 1,289 | 0.17 | 215 | \$32.54 | \$6,991 |
| | Small | 0 | 98% | 62 | - | - | 0.17 | - | \$32.54 | - |
| General Industry (Autobody Repair) | Large | 1 | 81% | 330 | 246 | 246 | 0.17 | 41 | \$32.54 | \$1,332 |
| | Small | 0 | 98% | 1,454 | - | - | 0.17 | - | \$32.54 | - |
| Coil Coating | Large | 2 | 81% | 101 | 150 | 150 | 0.17 | 25 | \$32.54 | \$814 |

Table 14

| VARIABLES | SIZE | EMPAL | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | MEDHSTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|------------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| | Small | 1 | 98% | 18 | 17 | 17 | 0.17 | 3 | \$32.54 | \$90 |
| Maritime | Large | 1 | 55.00% | 274 | 129 | 129 | 0.17 | 22 | \$32.54 | \$700 |
| | Small | 1 | 95% | 474 | 451 | 451 | 0.17 | 75 | \$32.54 | \$2,445 |
| Construction | Large | 486 | 0% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 612 | 0% | 1 | - | - | 0.17 | - | \$32.54 | - |
| Government | State | 45 | 0% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Local | 195 | 0% | 1 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| All | Large | 7 | 37% | 2 | 5 | 5 | 0.17 | 1 | \$32.54 | \$26 |
| | Small | 0 | 93% | 0 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| All | Large | 5 | 37% | 2 | 3 | 3 | 0.17 | 1 | \$32.54 | \$17 |
| | Small | 1 | 93% | 1 | 1 | 1 | 0.17 | 0 | \$32.54 | \$4 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| All | Large | 2 | 37% | 3 | 2 | 2 | 0.17 | 0 | \$32.54 | \$10 |
| | Small | 0 | 93% | 0 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| All | Large | 11 | 37% | 5 | 19 | 19 | 0.17 | 3 | \$32.54 | \$103 |
| | Small | 0 | 93% | 0 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| All | Large | 1 | 37% | 78 | 29 | 29 | 0.17 | 5 | \$32.54 | \$157 |
| | Small | 0 | 93% | 123 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| All | Large | 9 | 37% | 2 | 7 | 7 | 0.17 | 1 | \$32.54 | \$40 |
| | Small | 2 | 93% | 7 | 14 | 14 | 0.17 | 2 | \$32.54 | \$75 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 332 | 54% | 1 | 179 | 179 | 0.17 | 30 | \$32.54 | \$972 |
| | Small | 34 | 95% | 1 | 32 | 32 | 0.17 | 5 | \$32.54 | \$175 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| All | Large | 3 | 37% | 6 | 7 | 7 | 0.17 | 1 | \$32.54 | \$36 |
| | Small | 1 | 93% | 4 | 4 | 4 | 0.17 | 1 | \$32.54 | \$20 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| All | Large | 8 | 56% | 1 | 5 | 5 | 0.17 | 1 | \$32.54 | \$25 |
| | Small | 0 | 95% | 0 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| All | Large | 31 | 56% | 39 | 665 | 665 | 0.17 | 111 | \$32.54 | \$3,609 |
| | Small | 1 | 95% | 12 | 17 | 17 | 0.17 | 3 | \$32.54 | \$94 |
| Carbon Steel | Large | 1 | 56% | 116 | 48 | 48 | 0.17 | 8 | \$32.54 | \$258 |
| | Small | 1 | 95% | 37 | 51 | 51 | 0.17 | 8 | \$32.54 | \$275 |

Table 14

| VARIABLES | SIZE | EMPAL | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | MEDHSTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|------------|---------|-------------|-----------|-----------|--------------|-------------|--------------|
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping | Large | 3 | 56% | 33 | 56 | 56 | 0.17 | 9 | \$32.54 | \$303 |
| | Small | 1 | 95% | 31 | 30 | 30 | 0.17 | 5 | \$32.54 | \$161 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| All | Large | 16 | 56% | 152 | 1,363 | 1,363 | 0.17 | 227 | \$32.54 | \$7,394 |
| | Small | 4 | 95% | 111 | 420 | 420 | 0.17 | 70 | \$32.54 | \$2,281 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| All | Large | 27 | 37% | 2 | 25 | 25 | 0.17 | 4 | \$32.54 | \$135 |
| | Small | 6 | 93% | 1 | 5 | 5 | 0.17 | 1 | \$32.54 | \$25 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 37% | 0 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 1 | 93% | 5 | 4 | 4 | 0.17 | 1 | \$32.54 | \$23 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| All | Large | 0 | 92% | 212 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 1,600 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| All | Large | 0 | 89% | 307 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 623 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| All | Large | 1 | 76% | 8 | 8 | 8 | 0.17 | 1 | \$32.54 | \$41 |
| | Small | 0 | 97% | 24 | - | - | 0.17 | - | \$32.54 | - |
| Fiber, Flat, Container Glass | Large | 9 | 76% | 111 | 760 | 760 | 0.17 | 127 | \$32.54 | \$4,124 |
| | Small | 1 | 97% | 6 | 8 | 8 | 0.17 | 1 | \$32.54 | \$44 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| All | Large | 0 | 98% | 78 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99.70% | 312 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| All | Large | 1 | 67% | 1 | 1 | 1 | 0.17 | 0 | \$32.54 | \$4 |
| | Small | 0 | 97% | 0 | - | - | 0.17 | - | \$32.54 | - |
| Chromium Catalyst Companies | Large | 128 | 0% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 0% | 1 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 76% | 5 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 97% | 0 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | 0 | 94% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 1 | - | - | 0.17 | - | \$32.54 | - |
| Maritime | Large | 0 | 55% | 36 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 95% | 32 | - | - | 0.17 | - | \$32.54 | - |

Table 14

| VARIABLES | SIZE | EMPAL | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | MEDHSTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|------------|--------------|---------------|---------------|-------------|--------------|----------------|-------------------|
| Construction | Large | 0 | 88% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 1 | - | - | 0.17 | - | \$32.54 | - |
| Government | State | 0 | 88% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Local | 0 | 88% | 1 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| All | Large | 0 | 59% | 39 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 96% | 47 | - | - | 0.17 | - | \$32.54 | - |
| Government | State | 0 | 59% | 0 | - | - | 0.17 | - | \$32.54 | - |
| | Local | 0 | 96% | 24 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 0 | 56% | 18 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 95% | 0 | - | - | 0.17 | - | \$32.54 | - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation and Maintenance | Large | 0 | 88% | 54 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 247 | - | - | 0.17 | - | \$32.54 | - |
| | State | 0 | 88% | 16 | - | - | 0.17 | - | \$32.54 | - |
| | Local | 0 | 88% | 93 | - | - | 0.17 | - | \$32.54 | - |
| Hazardous Waste-Site Work | Large | 0 | 88% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 1 | - | - | 0.17 | - | \$32.54 | - |
| | State | 0 | 88% | 1 | - | - | 0.17 | - | \$32.54 | - |
| Refractory Brick Restoration | Large | 0 | 88% | 47 | - | - | 0.17 | - | \$32.54 | - |
| | Small | 0 | 99% | 185 | - | - | 0.17 | - | \$32.54 | - |
| Average/Total | | | | 7,695 | 18,870 | 18,870 | 0.17 | 3,145 | \$32.54 | \$ 102,338 |

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.

$$\text{COST} = (\text{EMPAL} * \text{MEDHISTCOST} * 1\text{-}\% \text{FITBASE} * \#\text{PLANTS})$$

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
- 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

| 0 | | | | | | |
|--------------------------------------|-------|-------|-------------|------------|---------|---------------|
| Variables | Size | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | Item 13 COST |
| SECTOR 1. ELECTROPLATING | | | | | | |
| ALL | Large | 5,063 | \$ 49.68 | 71% | 1 | \$ 178,576.02 |
| | Small | 1,104 | \$ 49.68 | 97% | 1 | \$ 53,190.54 |
| SECTOR 2A. WELDING | | | | | | |
| GENERAL INDUSTRY | Large | 0 | \$ 49.68 | 81% | 1 | \$ - |
| | Small | 0 | \$ 49.68 | 98% | 1 | \$ - |
| MARITIME | Large | 2,422 | \$ 49.68 | 55% | 1 | \$ 66,186.50 |
| | Small | 57 | \$ 49.68 | 95% | 1 | \$ 2,702.76 |
| CONSTRUCTION | Large | 3,354 | \$ 49.68 | 88% | 1 | \$ 146,615.04 |
| | Small | 2,593 | \$ 49.68 | 99% | 1 | \$ 127,535.98 |
| GOVERNMENT | State | 15 | \$ 49.68 | 88% | 1 | \$ 658.85 |
| | Local | 76 | \$ 49.68 | 99% | 1 | \$ 3,755.42 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | |
| GENERAL INDUSTRY | Large | 0 | \$ 49.68 | 81% | 1 | \$ - |
| | Small | 0 | \$ 49.68 | 98% | 1 | \$ - |
| MARITIME | Large | 17 | \$ 49.68 | 55% | 1 | \$ 466.68 |
| | Small | 0 | \$ 49.68 | 95% | 1 | \$ - |
| CONSTRUCTION | Large | 684 | \$ 49.68 | 88% | 1 | \$ 29,911.58 |
| | Small | 551 | \$ 49.68 | 99% | 1 | \$ 27,078.54 |
| SECTOR 3. PAINTING | | | | | | |
| GENERAL INDUSTRY (AEROSPACE) | Large | 32 | \$ 49.68 | 81% | 50 | \$ 64,034.27 |

Table 15

| Variables | Size | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|-------|-------------|------------|---------|--------------|
| | Small | 0 | \$ 49.68 | 98% | 62 | \$ - |
| GENERAL INDUSTRY (AUTOBODY REPAIR) | Large | 1 | \$ 49.68 | 81% | 330 | \$ 12,197.00 |
| | Small | 0 | \$ 49.68 | 98% | 1,454 | \$ - |
| GENERAL INDUSTRY (COIL COATING) | Large | 2 | \$ 49.68 | 81% | 101 | \$ 7,453.72 |
| | Small | 1 | \$ 49.68 | 98% | 18 | \$ 819.83 |
| MARITIME | Large | 1 | \$ 49.68 | 55% | 274 | \$ 6,409.43 |
| | Small | 1 | \$ 49.68 | 95% | 474 | \$ 22,390.60 |
| CONSTRUCTION | Large | 486 | \$ 49.68 | 0% | 1 | \$ - |
| | Small | 612 | \$ 49.68 | 0% | 1 | \$ - |
| GOVERNMENT | State | 45 | \$ 49.68 | 0% | 1 | \$ - |
| | Local | 195 | \$ 49.68 | 0% | 1 | \$ - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | |
| ALL | Large | 7 | \$ 49.68 | 37% | 2 | \$ 239.62 |
| | Small | 0 | \$ 49.68 | 93% | 0 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | |
| ALL | Large | 5 | \$ 49.68 | 37% | 2 | \$ 153.13 |
| | Small | 1 | \$ 49.68 | 93% | 1 | \$ 38.49 |
| SECTOR 6. CCA PRODUCERS | | | | | | |
| ALL | Large | 2 | \$ 49.68 | 37% | 3 | \$ 95.24 |
| | Small | 0 | \$ 49.68 | 93% | 0 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | |
| ALL | Large | 11 | \$ 49.68 | 37% | 5 | \$ 941.37 |
| | Small | 0 | \$ 49.68 | 93% | 0 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | |
| ALL | Large | 1 | \$ 49.68 | 37% | 78 | \$ 1,437.72 |
| | Small | 0 | \$ 49.68 | 93% | 123 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | |
| ALL | Large | 9 | \$ 49.68 | 37% | 2 | \$ 366.63 |
| | Small | 2 | \$ 49.68 | 93% | 7 | \$ 682.61 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | |
| ALL | Large | 332 | \$ 49.68 | 54% | 1 | \$ 8,905.91 |
| | Small | 34 | \$ 49.68 | 95% | 1 | \$ 1,604.53 |

Table 15

| Variables | Size | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|-------|-------------|------------|---------|--------------|
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | |
| ALL | Large | 3 | \$ 49.68 | 37% | 6 | \$ 326.33 |
| | Small | 1 | \$ 49.68 | 93% | 4 | \$ 182.27 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | |
| ALL | Large | 8 | \$ 49.68 | 56% | 1 | \$ 231.25 |
| | Small | 0 | \$ 49.68 | 95% | 0 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | |
| Alloy and Stainless Steel | Large | 31 | \$ 49.68 | 56% | 39 | \$ 33,054.34 |
| | Small | 1 | \$ 49.68 | 95% | 12 | \$ 856.48 |
| Carbon Steel | Large | 1 | \$ 49.68 | 56% | 116 | \$ 2,361.02 |
| | Small | 1 | \$ 49.68 | 95% | 37 | \$ 2,519.06 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | |
| Reshaping Industry | Large | 3 | \$ 49.68 | 56% | 33 | \$ 2,771.04 |
| | Small | 1 | \$ 49.68 | 95% | 31 | \$ 1,476.56 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | |
| ALL | Large | 16 | \$ 49.68 | 56% | 152 | \$ 67,722.40 |
| | Small | 4 | \$ 49.68 | 95% | 111 | \$ 20,888.40 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | |
| ALL | Large | 27 | \$ 49.68 | 37% | 2 | \$ 1,240.34 |
| | Small | 6 | \$ 49.68 | 93% | 1 | \$ 230.93 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | |
| ALL | Large | 0 | \$ 49.68 | 37% | 0 | \$ - |
| | Small | 1 | \$ 49.68 | 93% | 5 | \$ 215.10 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | |
| ALL | Large | 0 | \$ 49.68 | 92% | 212 | \$ - |
| | Small | 0 | \$ 49.68 | 99% | 1,600 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | |
| ALL | Large | 0 | \$ 49.68 | 89% | 307 | \$ - |
| | Small | 0 | \$ 49.68 | 99% | 623 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | |
| ALL | Large | 1 | \$ 49.68 | 76% | 8 | \$ 376.46 |
| | Small | 0 | \$ 49.68 | 97% | 24 | \$ - |
| | Large | 9 | \$ 49.68 | 76% | 111 | \$ 37,771.81 |

Table 15

| Variables | Size | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | Item 13 COST |
|--|-------|--------|-------------|------------|---------|--------------|
| FIBER, FLAT AND CONTAINER GLASS | Small | 1 \$ | 49.68 | 97% | 6 | \$ 400.41 |
| SECTOR 22. PRINTING | | | | | | |
| ALL | Large | 0 \$ | 49.68 | 98% | 78 | \$ - |
| | Small | 0 \$ | 49.68 | 100% | 312 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | |
| ALL | Large | 1 \$ | 49.68 | 67% | 1 | \$ 39.31 |
| | Small | 0 \$ | 49.68 | 97% | 0 | \$ - |
| Chromium Catalyst Companies | Large | 128 \$ | 49.68 | 0% | 1 | \$ - |
| | Small | 0 \$ | 49.68 | 0% | 1 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | |
| ALL | Large | 0 \$ | 49.68 | 76% | 5 | \$ - |
| | Small | 0 \$ | 49.68 | 97% | 0 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | |
| GENERAL INDUSTRY | Large | 0 \$ | 49.68 | 94% | 1 | \$ - |
| | Small | 0 \$ | 49.68 | 99% | 1 | \$ - |
| MARITIME | Large | 0 \$ | 49.68 | 55% | 36 | \$ - |
| | Small | 0 \$ | 49.68 | 95% | 32 | \$ - |
| CONSTRUCTION | Large | 0 \$ | 49.68 | 88% | 1 | \$ - |
| | Small | 0 \$ | 49.68 | 99% | 1 | \$ - |
| Government | State | 0 \$ | 49.68 | 88% | 1 | \$ - |
| | Local | 0 \$ | 49.68 | 88% | 1 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | |
| ALL | Large | 0 \$ | 49.68 | 59% | 39 | \$ - |
| | Small | 0 \$ | 49.68 | 96% | 47 | \$ - |
| Government | State | 0 \$ | 49.68 | 59% | 0 | \$ - |
| | Local | 0 \$ | 49.68 | 96% | 24 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | |
| ALL | Large | 0 \$ | 49.68 | 56% | 18 | \$ - |
| | Small | 0 \$ | 49.68 | 95% | 0 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | |
| | Large | 0 \$ | 49.68 | 88% | 54 | \$ - |

Table 15

| Variables | Size | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | Item 13 COST |
|---|-------|-------|-------------|------------|--------------|-------------------|
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Small | 0 \$ | 49.68 | 99% | 247 | \$ - |
| | State | 0 \$ | 49.68 | 88% | 16 | \$ - |
| | Local | 0 \$ | 49.68 | 88% | 93 | \$ - |
| HAZARDOUS WASTE-SITE WORK | Large | 0 \$ | 49.68 | 88% | 1 | \$ - |
| | Small | 0 \$ | 49.68 | 99% | 1 | \$ - |
| | State | 0 \$ | 49.68 | 88% | 1 | \$ - |
| REFRACTORY BRICK RESTORATION | Local | 0 \$ | 49.68 | 88% | 1 | \$ - |
| | Large | 0 \$ | 49.68 | 88% | 47 | \$ - |
| | Small | 0 \$ | 49.68 | 99% | 185 | \$ - |
| Total | | | | | 7,695 | \$ 937,112 |

Table 16

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 * %EMPMEDEXAM * 1-%FITBASE * PLANTS)
COST = BURDEN HOURS * 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
- RESPEXAMTIME** = Employee time, in hours, for medical exam for respirator use
- %EMPMEDEXAM** = Percent of employees that will require a medical exam for respirator use
- 1-%FITBASE** = Percent of plants not conducting annual respirator fit-test
- #PLANTS** = Number of plants represented by the model output
- NONSUPEWAGE** = Non-Supervisory wage rate
- %EMPMEDEXAM** = Percent of employees who "fail" an initial medical exam

| VARIABLES | SIZE | EMPAL | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | RESPEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|-------|-------------|------------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | |
| All | Large | 5,063 | 23% | 71% | 1 | 827 | 827 | 3 | 2,480 | \$32.54 | \$ 80,716 |
| | Small | 1,104 | 23% | 97% | 1 | 246 | 246 | 3 | 739 | \$32.54 | \$ 24,042 |
| SECTOR 2A. WELDING | | | | | | | | | | | |
| General Industry | Large | 0 | 23% | 81% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 98% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Maritime | Large | 2,422 | 23% | 55% | 1 | 306 | 306 | 3 | 919 | \$32.54 | \$ 29,916 |
| | Small | 57 | 23% | 95% | 1 | 13 | 13 | 3 | 38 | \$32.54 | \$ 1,222 |
| Construction | Large | 3,354 | 23% | 88% | 1 | 679 | 679 | 3 | 2,036 | \$32.54 | \$ 66,270 |
| | Small | 2,593 | 23% | 99% | 1 | 590 | 590 | 3 | 1,771 | \$32.54 | \$ 57,646 |
| Government | State | 15 | 23% | 88% | 1 | 3 | 3 | 3 | 9 | \$32.54 | \$ 298 |
| | Local | 76 | 23% | 99% | 1 | 17 | 17 | 3 | 52 | \$32.54 | \$ 1,697 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | |
| General Industry | Large | 0 | 23% | 81% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 98% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Maritime | Large | 17 | 23% | 55% | 1 | 2 | 2 | 3 | 6 | \$32.54 | \$ 211 |
| | Small | 0 | 23% | 95% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Construction | Large | 684 | 23% | 88% | 1 | 138 | 138 | 3 | 415 | \$32.54 | \$ 13,520 |
| | Small | 551 | 23% | 99% | 1 | 125 | 125 | 3 | 376 | \$32.54 | \$ 12,239 |
| SECTOR 3. PAINTING | | | | | | | | | | | |
| General Industry (Aerospace) | Large | 32 | 23% | 81% | 50 | 296 | 296 | 3 | 889 | \$32.54 | \$ 28,943 |
| | Small | 0 | 23% | 98% | 62 | - | - | 3 | - | \$32.54 | \$ - |
| General Industry (Autobody Repair) | Large | 1 | 23% | 81% | 330 | 56 | 56 | 3 | 169 | \$32.54 | \$ 5,513 |
| | Small | 0 | 23% | 98% | 1,454 | - | - | 3 | - | \$32.54 | \$ - |
| General Industry (Coil Coating) | Large | 2 | 23% | 81% | 101 | 35 | 35 | 3 | 104 | \$32.54 | \$ 3,369 |
| | Small | 1 | 23% | 98% | 18 | 4 | 4 | 3 | 11 | \$32.54 | \$ 371 |

Table 16

| VARIABLES | SIZE | EMPAL | %EMPMEXAM | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | RESPEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|-----------|------------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| Maritime | Large | 1 | 23% | 55% | 274 | 30 | 30 | 3 | 89 | \$32.54 | \$ 2,897 |
| | Small | 1 | 23% | 95% | 474 | 104 | 104 | 3 | 311 | \$32.54 | \$ 10,121 |
| Construction | Large | 486 | 23% | 0% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 612 | 23% | 0% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Government | State | 45 | 23% | 0% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 195 | 23% | 0% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | |
| All | Large | 7 | 23% | 37% | 2 | 1 | 1 | 3 | 3 | \$32.54 | \$ 108 |
| | Small | 0 | 23% | 93% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | |
| All | Large | 5 | 23% | 37% | 2 | 1 | 1 | 3 | 2 | \$32.54 | \$ 69 |
| | Small | 1 | 23% | 93% | 1 | 0.2 | 0.2 | 3 | 1 | \$32.54 | \$ 17 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | |
| All | Large | 2 | 23% | 37% | 3 | 0.4 | 0.4 | 3 | 1 | \$32.54 | \$ 43 |
| | Small | 0 | 23% | 93% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | |
| All | Large | 11 | 23% | 37% | 5 | 4 | 4 | 3 | 13 | \$32.54 | \$ 425 |
| | Small | 0 | 23% | 93% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | |
| All | Large | 1 | 23% | 37% | 78 | 7 | 7 | 3 | 20 | \$32.54 | \$ 650 |
| | Small | 0 | 23% | 93% | 123 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | |
| All | Large | 9 | 23% | 37% | 2 | 2 | 2 | 3 | 5 | \$32.54 | \$ 166 |
| | Small | 2 | 23% | 93% | 7 | 3 | 3 | 3 | 9 | \$32.54 | \$ 309 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 332 | 23% | 54% | 1 | 41 | 41 | 3 | 124 | \$32.54 | \$ 4,025 |
| | Small | 34 | 23% | 95% | 1 | 7 | 7 | 3 | 22 | \$32.54 | \$ 725 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | |
| All | Large | 3 | 23% | 37% | 6 | 2 | 2 | 3 | 5 | \$32.54 | \$ 147 |
| | Small | 1 | 23% | 93% | 4 | 1 | 1 | 3 | 3 | \$32.54 | \$ 82 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | |
| All | Large | 8 | 23% | 56% | 1 | 1 | 1 | 3 | 3 | \$32.54 | \$ 105 |
| | Small | 0 | 23% | 95% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | 31 | 23% | 56% | 39 | 153 | 153 | 3 | 459 | \$32.54 | \$ 14,941 |
| | Small | 1 | 23% | 95% | 12 | 4 | 4 | 3 | 12 | \$32.54 | \$ 387 |
| Carbon Steel | Large | 1 | 23% | 56% | 116 | 11 | 11 | 3 | 33 | \$32.54 | \$ 1,067 |
| | Small | 1 | 23% | 95% | 37 | 12 | 12 | 3 | 35 | \$32.54 | \$ 1,139 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | |
| | Large | 3 | 23% | 56% | 33 | 13 | 13 | 3 | 38 | \$32.54 | \$ 1,253 |

Table 16

| VARIABLES | SIZE | EMPAL | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | RESPEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|-------------|------------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| Reshaping Industry | Small | 1 | 23% | 95% | 31 | 7 | 7 | 3 | 21 | \$32.54 | \$ 667 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | |
| All | Large | 16 | 23% | 56% | 152 | 314 | 314 | 3 | 941 | \$32.54 | \$ 30,610 |
| | Small | 4 | 23% | 95% | 111 | 97 | 97 | 3 | 290 | \$32.54 | \$ 9,442 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | |
| All | Large | 27 | 23% | 37% | 2 | 6 | 6 | 3 | 17 | \$32.54 | \$ 561 |
| | Small | 6 | 23% | 93% | 1 | 1 | 1 | 3 | 3 | \$32.54 | \$ 104 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 23% | 37% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 1 | 23% | 93% | 5 | 1 | 1 | 3 | 3 | \$32.54 | \$ 97 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | |
| All | Large | 0 | 23% | 92% | 212 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 1,600 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | |
| All | Large | 0 | 23% | 89% | 307 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 623 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | |
| All | Large | 1 | 23% | 76% | 8 | 2 | 2 | 3 | 5 | \$32.54 | \$ 170 |
| | Small | 0 | 23% | 97% | 24 | - | - | 3 | - | \$32.54 | \$ - |
| Fiber, Flat and Container Glass | Large | 9 | 23% | 76% | 111 | 175 | 175 | 3 | 525 | \$32.54 | \$ 17,073 |
| | Small | 1 | 23% | 97% | 6 | 2 | 2 | 3 | 6 | \$32.54 | \$ 181 |
| SECTOR 22. PRINTING | | | | | | | | | | | |
| All | Large | 0 | 23% | 98% | 78 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 100% | 312 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | |
| All | Large | 1 | 23% | 67% | 1 | 0.2 | 0.2 | 3 | 1 | \$32.54 | \$ 18 |
| | Small | 0 | 23% | 0% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| Chromium Catalyst Companies | Large | 128 | 23% | 0% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 97% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 23% | 76% | 5 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 97% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | |
| General Industry | Large | 0 | 23% | 94% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 23% | 55% | 36 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 95% | 32 | - | - | 3 | - | \$32.54 | \$ - |
| Construction | Large | 0 | 23% | 88% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 1 | - | - | 3 | - | \$32.54 | \$ - |

Table 16

| VARIABLES | SIZE | EMPAL | %EMP/DETXAM | 1-%FITBASE | #PLANTS | RESPONDENTS | RESPONSES | RESPEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|-------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|----------------|-------------------|
| Government | State | 0 | 23% | 88% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 0 | 23% | 88% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | |
| All | Large | 0 | 23% | 59% | 39 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 96% | 47 | - | - | 3 | - | \$32.54 | \$ - |
| Government | State | 0 | 23% | 59% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 0 | 23% | 96% | 24 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 0 | 23% | 56% | 18 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 95% | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | |
| Industrial Rehabilitation and Maintenance | Large | 0 | 23% | 88% | 54 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 247 | - | - | 3 | - | \$32.54 | \$ - |
| | State | 0 | 23% | 88% | 16 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 0 | 23% | 88% | 93 | - | - | 3 | - | \$32.54 | \$ - |
| Hazardous Waste-Site Work | Large | 0 | 23% | 88% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | State | 0 | 23% | 88% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 0 | 23% | 88% | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 0 | 23% | 88% | 47 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 23% | 99% | 185 | - | - | 3 | - | \$32.54 | \$ - |
| Average/Total | | | | Total | 7,695 | 4,339 | 4,339 | 3 | 13,017 | \$32.54 | \$ 423,573 |

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.

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

Variables:

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

| 0 | | | | | | | |
|--------------------------------------|-------|-------|--------------|-------------|------------|---------|---------------|
| | Size | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
| SECTOR 1. ELECTROPLATING | | | | | | | |
| ALL | Large | 5,063 | \$ 149.01 | 23% | 71% | 1 | \$ 123,205.90 |
| | Small | 1,104 | \$ 149.01 | 23% | 97% | 1 | \$ 36,698.03 |
| SECTOR 2A. WELDING | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | \$ 149.01 | 23% | 81% | 1 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 98% | 1 | \$ - |
| MARITIME | Large | 2,422 | \$ 149.01 | 23% | 55% | 1 | \$ 45,664.40 |
| | Small | 57 | \$ 149.01 | 23% | 95% | 1 | \$ 1,864.73 |
| CONSTRUCTION | Large | 3,354 | \$ 149.01 | 23% | 88% | 1 | \$ 101,154.89 |
| | Small | 2,593 | \$ 149.01 | 23% | 99% | 1 | \$ 87,991.57 |
| GOVERNMENT | State | 15 | \$ 149.01 | 23% | 88% | 1 | \$ 454.56 |
| | Local | 76 | \$ 149.01 | 23% | 99% | 1 | \$ 2,591.00 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | \$ 149.01 | 23% | 81% | 1 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 98% | 1 | \$ - |
| MARITIME | Large | 17 | \$ 149.01 | 23% | 55% | 1 | \$ 321.98 |
| | Small | 0 | \$ 149.01 | 23% | 95% | 1 | \$ - |
| CONSTRUCTION | Large | 684 | \$ 149.01 | 23% | 88% | 1 | \$ 20,637.05 |
| | Small | 551 | \$ 149.01 | 23% | 99% | 1 | \$ 18,682.44 |
| SECTOR 3. PAINTING | | | | | | | |

Table 17

| | Size | EMPAL | RESPEXAMCOST | %EMPEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|-------|--------------|------------|------------|---------|--------------|
| GENERAL INDUSTRY AEROSPACE | Large | 32 | \$ 149.01 | 23% | 81% | 50 | \$ 44,179.50 |
| | Small | 0 | \$ 149.01 | 23% | 98% | 62 | \$ - |
| GENERAL INDUSTRY AUTOBODY | Large | 1 | \$ 149.01 | 23% | 81% | 330 | \$ 8,415.14 |
| | Small | 0 | \$ 149.01 | 23% | 98% | 1,454 | \$ - |
| COIL COATINGS | Large | 2 | \$ 149.01 | 23% | 81% | 101 | \$ 5,142.59 |
| | Small | 1 | \$ 149.01 | 23% | 98% | 18 | \$ 565.63 |
| MARITIME | Large | 1 | \$ 149.01 | 23% | 55% | 274 | \$ 4,422.09 |
| | Small | 1 | \$ 149.01 | 23% | 95% | 474 | \$ 15,448.07 |
| CONSTRUCTION | Large | 486 | \$ 149.01 | 23% | 0% | 1 | \$ - |
| | Small | 612 | \$ 149.01 | 23% | 0% | 1 | \$ - |
| GOVERNMENT | State | 45 | \$ 149.01 | 23% | 0% | 1 | \$ - |
| | Local | 195 | \$ 149.01 | 23% | 0% | 1 | \$ - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | |
| ALL | Large | 7 | \$ 149.01 | 23% | 37% | 2 | \$ 165.32 |
| | Small | 0 | \$ 149.01 | 23% | 93% | 0 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | |
| ALL | Large | 5 | \$ 149.01 | 23% | 37% | 2 | \$ 105.65 |
| | Small | 1 | \$ 149.01 | 23% | 93% | 1 | \$ 26.55 |
| SECTOR 6. CCA PRODUCERS | | | | | | | |
| ALL | Large | 2 | \$ 149.01 | 23% | 37% | 3 | \$ 65.71 |
| | Small | 0 | \$ 149.01 | 23% | 93% | 0 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | |
| ALL | Large | 11 | \$ 149.01 | 23% | 37% | 5 | \$ 649.48 |
| | Small | 0 | \$ 149.01 | 23% | 93% | 0 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | |
| ALL | Large | 1 | \$ 149.01 | 23% | 37% | 78 | \$ 991.93 |
| | Small | 0 | \$ 149.01 | 23% | 93% | 123 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | |
| ALL | Large | 9 | \$ 149.01 | 23% | 37% | 2 | \$ 252.95 |
| | Small | 2 | \$ 149.01 | 23% | 93% | 7 | \$ 470.96 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | |

Table 17

| | Size | EMPAL | RESPEXAMCOST | %EMPEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|-------|--------------|------------|------------|---------|--------------|
| ALL | Large | 332 | \$ 149.01 | 23% | 54% | 1 | \$ 6,144.50 |
| | Small | 34 | \$ 149.01 | 23% | 95% | 1 | \$ 1,107.02 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | |
| ALL | Large | 3 | \$ 149.01 | 23% | 37% | 6 | \$ 225.14 |
| | Small | 1 | \$ 149.01 | 23% | 93% | 4 | \$ 125.76 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | |
| ALL | Large | 8 | \$ 149.01 | 23% | 56% | 1 | \$ 159.55 |
| | Small | 0 | \$ 149.01 | 23% | 95% | 0 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | |
| Alloy and Stainless Steel | Large | 31 | \$ 149.01 | 23% | 56% | 39 | \$ 22,805.35 |
| | Small | 1 | \$ 149.01 | 23% | 95% | 12 | \$ 590.92 |
| Carbon Steel | Large | 1 | \$ 149.01 | 23% | 56% | 116 | \$ 1,628.95 |
| | Small | 1 | \$ 149.01 | 23% | 95% | 37 | \$ 1,737.99 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | |
| Reshaping Industry | Large | 3 | \$ 149.01 | 23% | 56% | 33 | \$ 1,911.84 |
| | Small | 1 | \$ 149.01 | 23% | 95% | 31 | \$ 1,018.73 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | |
| ALL | Large | 16 | \$ 149.01 | 23% | 56% | 152 | \$ 46,724.07 |
| | Small | 4 | \$ 149.01 | 23% | 95% | 111 | \$ 14,411.65 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | |
| ALL | Large | 27 | \$ 149.01 | 23% | 37% | 2 | \$ 855.75 |
| | Small | 6 | \$ 149.01 | 23% | 93% | 1 | \$ 159.33 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | |
| ALL | Large | 0 | \$ 149.01 | 23% | 37% | 0 | \$ - |
| | Small | 1 | \$ 149.01 | 23% | 93% | 5 | \$ 148.41 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | |
| ALL | Large | 0 | \$ 149.01 | 23% | 92% | 212 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 99% | 1,600 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | |
| ALL | Large | 0 | \$ 149.01 | 23% | 89% | 307 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 99% | 623 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | |

Table 17

| | Size | EMPAL | RESPEXAMCOST | %EMPEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|-------|--------------|------------|------------|---------|--------------|
| ALL | Large | 1 | \$ 149.01 | 23% | 76% | 8 | \$ 259.74 |
| | Small | 0 | \$ 149.01 | 23% | 97% | 24 | \$ - |
| Fiber, Flat and Container | Large | 9 | \$ 149.01 | 23% | 76% | 111 | \$ 26,060.11 |
| | small | 1 | \$ 149.01 | 23% | 97% | 6 | \$ 276.25 |
| SECTOR 22. PRINTING | | | | | | | |
| ALL | Large | 0 | \$ 149.01 | 23% | 98% | 78 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 100% | 312 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | |
| Chromium Catalyst Users | Large | 1 | \$ 149.01 | 23% | 67% | 1 | \$ 27.12 |
| | Small | 0 | \$ 149.01 | 23% | 0% | 0 | \$ - |
| Chromium Catalyst Companies | Large | 128 | \$ 149.01 | 23% | 0% | 1 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 0% | 1 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | |
| ALL | Large | 0 | \$ 149.01 | 23% | 76% | 5 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 97% | 0 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | \$ 149.01 | 23% | 94% | 1 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 99% | 1 | \$ - |
| MARITIME | Large | 0 | \$ 149.01 | 23% | 55% | 36 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 95% | 32 | \$ - |
| CONSTRUCTION | Large | 0 | \$ 149.01 | 23% | 88% | 1 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 99% | 1 | \$ - |
| Government | State | 0 | \$ 149.01 | 23% | 88% | 1 | \$ - |
| | Local | 0 | \$ 149.01 | 23% | 88% | 1 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | |
| ALL | Large | 0 | \$ 149.01 | 23% | 59% | 39 | \$ - |
| | Small | 0 | \$ 149.01 | 23% | 96% | 47 | \$ - |
| Government | State | 0 | \$ 149.01 | 23% | 59% | 0 | \$ - |
| | Local | 0 | \$ 149.01 | 23% | 96% | 24 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | |
| | Large | 0 | \$ 149.01 | 23% | 56% | 18 | \$ - |

Table 17

| | Size | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|---|-------|---------------|--------------|-------------|------------|--------------|-------------------|
| ALL | Small | 0 \$ | 149.01 | 23% | 95% | 0 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | 0 \$ | 149.01 | 23% | 88% | 54 | \$ - |
| | Small | 0 \$ | 149.01 | 23% | 99% | 247 | \$ - |
| | State | 0 \$ | 149.01 | 23% | 88% | 16 | \$ - |
| | Local | 0 \$ | 149.01 | 23% | 88% | 93 | \$ - |
| HAZARDOUS WASTE-SITE WORK | Large | 0 \$ | 149.01 | 23% | 88% | 1 | \$ - |
| | Small | 0 \$ | 149.01 | 23% | 99% | 1 | \$ - |
| | State | 0 \$ | 149.01 | 23% | 88% | 1 | \$ - |
| | Local | 0 \$ | 149.01 | 23% | 88% | 1 | \$ - |
| REFRACTORY BRICK RESTORATION | Large | 0 \$ | 149.01 | 23% | 88% | 47 | \$ - |
| | Small | 0 \$ | 149.01 | 23% | 99% | 185 | \$ - |
| Total | | 17,961 | | | | 7,695 | \$ 646,546 |

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.

$$\text{Cost} = \text{GLOVERPL}/1,602 * 5\% * \text{COST} * \#\text{PLANTS}$$

Variables:

- 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

| | | 0 | | | | | | |
|--------------------------------------|-------|------------|--------------|------------------------------|--------|---------|--------------|--|
| Variables | Size | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost | |
| SECTOR 1. ELECTROPLATING | | | | | | | | |
| ALL | Large | 54,888,821 | 1,602 | 1713.13 | \$0.45 | 1 | \$766 | |
| | Small | 11,970,179 | 1,602 | 373.60 | \$0.45 | 1 | \$167 | |
| SECTOR 2A. WELDING | | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | 1,602 | 0.00 | \$0.45 | 8,171 | \$0 | |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 9,155 | \$0 | |
| MARITIME | Large | 0 | 1,602 | 0.00 | \$0.45 | 197 | \$0 | |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 112 | \$0 | |
| CONSTRUCTION | Large | 0 | 1,602 | 0.00 | \$0.45 | 278 | \$0 | |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 2,231 | \$0 | |
| GOVERNMENT | State | 0 | 1,602 | 0.00 | \$0.45 | 26 | \$0 | |
| | Local | 0 | 1,602 | 0.00 | \$0.45 | 819 | \$0 | |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | 1,602 | 0.00 | \$0.45 | 10,955 | \$0 | |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 11,152 | \$0 | |
| | Large | 0 | 1,602 | 0.00 | \$0.45 | 425 | \$0 | |

Table 18

| Variables | Size | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost |
|--|-------|-----------|--------------|------------------------------|--------|---------|--------------|
| MARITIME | Small | 0 | 1,602 | 0.00 | \$0.45 | 241 | \$0 |
| | Large | 0 | 1,602 | 0.00 | \$0.45 | 418 | \$0 |
| CONSTRUCTION | Small | 0 | 1,602 | 0.00 | \$0.45 | 3,158 | \$0 |
| SECTOR 3. PAINTING | | | | | | | |
| AEROSPACE | Large | 125,000 | 1,602 | 3.90 | \$0.45 | 50 | \$86 |
| | Small | 1,000 | 1,602 | 0.03 | \$0.45 | 62 | \$1 |
| AUTO BODY | Large | 61,000 | 1,602 | 1.90 | \$0.45 | 330 | \$281 |
| | Small | 5,000 | 1,602 | 0.16 | \$0.45 | 1,454 | \$102 |
| COIL COATING | Large | 14,000 | 1,602 | 0.44 | \$0.45 | 101 | \$20 |
| | Small | 3,000 | 1,602 | 0.09 | \$0.45 | 18 | \$1 |
| MARITIME | Large | 5,000 | 1,602 | 0.16 | \$0.45 | 274 | \$19 |
| | Small | 2,000 | 1,602 | 0.06 | \$0.45 | 474 | \$13 |
| CONSTRUCTION | Large | 14,000 | 1,602 | 0.44 | \$0.45 | 789 | \$154 |
| | Small | 3,000 | 1,602 | 0.09 | \$0.45 | 4,197 | \$176 |
| GOVERNMENT | State | 5,000 | 1,602 | 0.16 | \$0.45 | 17 | \$1 |
| | Local | 59,000 | 1,602 | 1.84 | \$0.45 | 945 | \$779 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | |
| ALL | Large | 75,000 | 1,602 | 2.34 | \$0.45 | 2 | \$2 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | |
| ALL | Large | 24,000 | 1,602 | 0.75 | \$0.45 | 2 | \$1 |
| | Small | 3,000 | 1,602 | 0.09 | \$0.45 | 1 | \$0 |
| SECTOR 6. CCA PRODUCERS | | | | | | | |
| ALL | Large | 8,760 | 1,602 | 0.27 | \$0.45 | 3 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | |
| ALL | Large | 57,000 | 1,602 | 1.78 | \$0.45 | 5 | \$4 |

Table 18

| Variables | Size | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost |
|--|-------|-----------|--------------|------------------------------|--------|---------|--------------|
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | |
| ALL | Large | 12,000 | 1,602 | 0.37 | \$0.45 | 78 | \$13 |
| | Small | 6,000 | 1,602 | 0.19 | \$0.45 | 123 | \$10 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | |
| ALL | Large | 24,000 | 1,602 | 0.75 | \$0.45 | 2 | \$1 |
| | Small | 480 | 1,602 | 0.01 | \$0.45 | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | |
| ALL | Large | 583 | 1,602 | 0.02 | \$0.45 | 79 | \$1 |
| | Small | 120 | 1,602 | 0.00 | \$0.45 | 39 | \$0 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | |
| ALL | Large | 14,400 | 1,602 | 0.45 | \$0.45 | 6 | \$1 |
| | Small | 2,880 | 1,602 | 0.09 | \$0.45 | 4 | \$0 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | |
| ALL | Large | 0 | 1,602 | 0.00 | \$0.45 | 1 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | 1,602 | 0.00 | \$0.45 | 39 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 12 | \$0 |
| CARBON STEEL | Large | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | |
| RESHAPING INDUSTRY | Large | 0 | 1,602 | 0.00 | \$0.45 | 33 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 31 | \$0 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | |
| ALL | Large | 0 | 1,602 | 0.00 | \$0.45 | 152 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 111 | \$0 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | |
| ALL | Large | 3,840 | 1,602 | 0.12 | \$0.45 | 2 | \$0 |

Table 18

| Variables | Size | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost |
|--|-------|-----------|--------------|------------------------------|--------|---------|--------------|
| | Small | 840 | 1,602 | 0.03 | \$0.45 | 1 | \$0 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | |
| ALL | Large | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| | Small | 2,000 | 1,602 | 0.06 | \$0.45 | 5 | \$0 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | |
| ALL | Large | 0 | 1,602 | 0.00 | \$0.45 | 212 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | |
| ALL | Large | 7,580 | 1,602 | 0.24 | \$0.45 | 307 | \$32 |
| | Small | 240 | 1,602 | 0.01 | \$0.45 | 623 | \$2 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | |
| ALL | Large | 1,000 | 1,602 | 0.03 | \$0.45 | 8 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 24 | \$0 |
| FIBER, FLAT, AND CONTAINER GLASS | Large | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 22. PRINTING | | | | | | | |
| ALL | Large | 5,460 | 1,602 | 0.17 | \$0.45 | 78 | \$6 |
| | Small | 360 | 1,602 | 0.01 | \$0.45 | 312 | \$2 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | |
| Chromium Catalyst Users | Large | 2,000 | 1,602 | 0.06 | \$0.45 | 193 | \$5 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| Catalyst Service Companies | Large | 30,000 | 1,602 | 0.94 | \$0.45 | 25 | \$10 |
| | Small | 15,000 | 1,602 | 0.47 | \$0.45 | 5 | \$1 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | |
| ALL | Large | 11,000 | 1,602 | 0.34 | \$0.45 | 5 | \$1 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | 1,602 | 0.00 | \$0.45 | 143 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 76 | \$0 |

Table 18

| Variables | Size | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost |
|--|-------|-----------|--------------|------------------------------|--------|---------------|----------------|
| MARITIME | Large | 0 | 1,602 | 0.00 | \$0.45 | 36 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 32 | \$0 |
| CONSTRUCTION | Large | 2,000 | 1,602 | 0.06 | \$0.45 | 1,232 | \$34 |
| | Small | 1,000 | 1,602 | 0.03 | \$0.45 | 4,932 | \$69 |
| GOVERNMENT | State | 1,000 | 1,602 | 0.03 | \$0.45 | 17 | \$0 |
| | Local | 1,000 | 1,602 | 0.03 | \$0.45 | 62 | \$1 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | |
| ALL | Large | 20,000 | 1,602 | 0.62 | \$0.45 | 39 | \$11 |
| | Small | 3,000 | 1,602 | 0.09 | \$0.45 | 47 | \$2 |
| GOVERNMENT | State | 20,000 | 1,602 | 0.62 | \$0.45 | 0 | \$0 |
| | Local | 3,000 | 1,602 | 0.09 | \$0.45 | 24 | \$1 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | |
| ALL | Large | 0 | 1,602 | 0.00 | \$0.45 | 18 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| | Small | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| | State | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| | Local | 0 | 1,602 | 0.00 | \$0.45 | 0 | \$0 |
| HAZARDOUS WASTE-SITE WORK | Large | 14,000 | 1,602 | 0.44 | \$0.45 | 43 | \$8 |
| | Small | 3,000 | 1,602 | 0.09 | \$0.45 | 180 | \$8 |
| | State | 2,000 | 1,602 | 0.06 | \$0.45 | 1 | \$0 |
| | Local | 3,000 | 1,602 | 0.09 | \$0.45 | 252 | \$11 |
| REFRACTORY BRICK RESTORATION | Large | 14,000 | 1,602 | 0.44 | \$0.45 | 47 | \$9 |
| | Small | 1,000 | 1,602 | 0.03 | \$0.45 | 185 | \$3 |
| Total | | | | | | 67,548 | \$2,816 |

Table 18a

TABLE 18 (a): 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.

BURDEN HOURS = 5% OF CONTAINERS NEED LABELS *#PLANTS * AFFIX
COST = BURDEN HOURS * HCLWAGE

Variables:

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 = 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 | SIZE | GLOVEREPL | NOGLOVESCONT | 5% OF CONTAINERS NEED LABELS | #PLANTS | RESPONDENTS | RESPONSES | AFFIX | BURDEN HOURS | HCLWAGE | ITEM 12 COST |
|--------------------------------------|-------|------------|--------------|------------------------------|---------|-------------|-----------|-------|--------------|---------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | |
| All | Large | 54,888,821 | 1,602 | 1713 | 1 | 1,713 | 1,713 | 0.02 | 29 | \$26.65 | \$ 761 |
| | Small | 11,970,179 | 1,602 | 374 | 1 | 374 | 374 | 0.02 | 6 | \$26.65 | \$ 166 |
| SECTOR 2A. WELDING | | | | | | | | | | | |
| General Industry | Large | 0 | 1,602 | 0 | 8,171 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | 0 | 9,155 | - | - | 0.02 | - | \$26.65 | \$ - |
| Maritime | Large | 0 | 1,602 | 0 | 197 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | 0 | 112 | - | - | 0.02 | - | \$26.65 | \$ - |
| Construction | Large | 0 | 1,602 | 0 | 278 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | 0 | 2,231 | - | - | 0.02 | - | \$26.65 | \$ - |
| Government | State | 0 | 1,602 | 0 | 26 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Local | 0 | 1,602 | 0 | 819 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | |
| General Industry | Large | 0 | 1,602 | 0 | 10,955 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | 0 | 11,152 | - | - | 0.02 | - | \$26.65 | \$ - |
| Maritime | Large | 0 | 1,602 | 0 | 425 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | 0 | 241 | - | - | 0.02 | - | \$26.65 | \$ - |
| Construction | Large | 0 | 1,602 | 0 | 418 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | 0 | 3,158 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 3. PAINTING | | | | | | | | | | | |
| Aerospace | Large | 125,000 | 1,602 | 3.90 | 50 | 193 | 193 | 0.02 | 3 | \$26.65 | \$ 86 |
| | Small | 1,000 | 1,602 | 0.03 | 62 | 2 | 2 | 0.02 | 0.03 | \$26.65 | \$ 1 |
| Auto Body | Large | 61,000 | 1,602 | 1.90 | 330 | 629 | 629 | 0.02 | 10 | \$26.65 | \$ 279 |
| | Small | 5,000 | 1,602 | 0.16 | 1,454 | 227 | 227 | 0.02 | 4 | \$26.65 | \$ 101 |
| Coil Coating | Large | 14,000 | 1,602 | 0.44 | 101 | 44 | 44 | 0.02 | 1 | \$26.65 | \$ 20 |
| | Small | 3,000 | 1,602 | 0.09 | 18 | 2 | 2 | 0.02 | 0.03 | \$26.65 | \$ 1 |
| Maritime | Large | 5,000 | 1,602 | 0.16 | 274 | 43 | 43 | 0.02 | 1 | \$26.65 | \$ 19 |

Table 18a

| VARIABLES | SIZE | GLOVEREPL | NOGLOVESCONT | 5% OF CONTAINERS NEED LABELS | #PLANTS | RESPONDENTS | RESPONSES | AFFIX | BURDEN HOURS | HCLWAGE | ITEM 12 COST |
|--|-------|-----------|--------------|------------------------------|---------|-------------|-----------|-------|--------------|---------|--------------|
| | Small | 2,000 | 1,602 | 0.06 | 474 | 30 | 30 | 0.02 | 0.5 | \$26.65 | \$ 13 |
| Construction | Large | 14,000 | 1,602 | 0.44 | 789 | 345 | 345 | 0.02 | 6 | \$26.65 | \$ 153 |
| | Small | 3,000 | 1,602 | 0.09 | 4,197 | 393 | 393 | 0.02 | 7 | \$26.65 | \$ 175 |
| Government | State | 5,000 | 1,602 | 0.16 | 17 | 3 | 3 | 0.02 | 0.04 | \$26.65 | \$ 1 |
| | Local | 59,000 | 1,602 | 1.84 | 945 | 1,740 | 1,740 | 0.02 | 29 | \$26.65 | \$ 773 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | |
| All | Large | 75,000 | 1,602 | 2 | 2 | 4 | 4 | 0.02 | 0.07 | \$26.65 | \$ 2 |
| | Small | 0 | 1,602 | - | - | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | |
| All | Large | 24,000 | 1,602 | 1 | 2 | 1 | 1 | 0.02 | 0.02 | \$26.65 | \$ 1 |
| | Small | 3,000 | 1,602 | 0 | 1 | 0.1 | 0.1 | 0.02 | 0.001 | \$26.65 | \$ 0.03 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | |
| All | Large | 8,760 | 1,602 | 0 | 3 | 1 | 1 | 0.02 | 0.01 | \$26.65 | \$ 0.3 |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | |
| All | Large | 57,000 | 1,602 | 2 | 5 | 8 | 8 | 0.02 | 0.14 | \$26.65 | \$ 4 |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | |
| All | Large | 12,000 | 1,602 | 0.4 | 78 | 29 | 29 | 0.02 | 0.49 | \$26.65 | \$ 13 |
| | Small | 6,000 | 1,602 | 0.2 | 123 | 23 | 23 | 0.02 | 0.4 | \$26.65 | \$ 10 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | |
| All | Large | 24,000 | 1,602 | 1 | 2 | 2 | 2 | 0.02 | 0.03 | \$26.65 | \$ 1 |
| | Small | 480 | 1,602 | 0.01 | 7 | 0.1 | 0.1 | 0.02 | 0.002 | \$26.65 | \$ 0.05 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 583 | 1,602 | 0.02 | 79 | 1 | 1 | 0.02 | 0.02 | \$26.65 | \$ 1 |
| | Small | 120 | 1,602 | 0.004 | 39 | 0.1 | 0.1 | 0.02 | 0.002 | \$26.65 | 0.1 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | |
| All | Large | 14,400 | 1,602 | 0.4 | 6 | 3 | 3 | 0.02 | 0.04 | \$26.65 | \$ 1 |
| | Small | 2,880 | 1,602 | 0.1 | 4 | 0.4 | 0.4 | 0.02 | 0.006 | \$26.65 | 0.2 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 1,602 | - | 1 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | |
| General Industry | Large | 0 | 1,602 | - | 39 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 12 | - | - | 0.02 | - | \$26.65 | \$ - |
| Carbon Steel | Large | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | |
| Reshaping Industry | Large | 0 | 1,602 | - | 33 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 31 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | |

Table 18a

| VARIABLES | SIZE | GLOVEREPL | NOGLOVESCONT | 5% OF CONTAINERS NEED LABELS | #PLANTS | RESPONDENTS | RESPONSES | AFFIX | BURDEN HOURS | HCLWAGE | ITEM 12 COST |
|--|-------|-----------|--------------|------------------------------|---------|-------------|-----------|-------|--------------|---------|--------------|
| All | Large | 0 | 1,602 | - | 152 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 111 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | |
| All | Large | 3,840 | 1,602 | 0.1 | 2 | 0.3 | 0.3 | 0.02 | 0.005 | \$26.65 | \$ 0.1 |
| | Small | 840 | 1,602 | 0.03 | 1 | 0.02 | 0.02 | 0.02 | 0.0004 | \$26.65 | \$ 0.01 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 2,000 | 1,602 | 0.1 | 5 | 0.3 | 0.3 | 0.02 | 0.005 | \$26.65 | \$ 0.1 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | |
| All | Large | 0 | 1,602 | - | 212 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 1,600 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | |
| All | Large | 7,580 | 1,602 | 0.2 | 307 | 73 | 73 | 0.02 | 1.21 | \$26.65 | \$ 32 |
| | Small | 240 | 1,602 | 0.01 | 623 | 5 | 5 | 0.02 | 0.1 | \$26.65 | \$ 2 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | |
| All | Large | 1,000 | 1,602 | 0.03 | 8 | 0.2 | 0.2 | 0.02 | 0.004 | \$26.65 | \$ 0.1 |
| | Small | 0 | 1,602 | - | 24 | - | - | 0.02 | - | \$26.65 | \$ - |
| Fiber, Flat, and Container Glass | Large | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | | | |
| All | Large | 5,460 | 1,602 | 0.2 | 78 | 13 | 13 | 0.02 | 0.22 | \$26.65 | \$ 6 |
| | Small | 360 | 1,602 | 0.01 | 312 | 4 | 4 | 0.02 | 0.1 | \$26.65 | \$ 2 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | |
| Chromium Catalyst Users | Large | 2,000 | 1,602 | 0.1 | 193 | 12 | 12 | 0.02 | 0.20 | \$26.65 | \$ 5 |
| | Small | 0 | 1,602 | - | - | - | - | 0.02 | - | \$26.65 | \$ - |
| Catalyst Service Companies | Large | 30,000 | 1,602 | 1 | 25 | 23 | 23 | 0.02 | 0.39 | \$26.65 | \$ 10 |
| | Small | 15,000 | 1,602 | 0.5 | 5 | 2 | 2 | 0.02 | 0.04 | \$26.65 | \$ 1 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | |
| All | Large | 11,000 | 1,602 | 0.3 | 5 | 2 | 2 | 0.02 | 0.03 | \$26.65 | \$ 1 |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | |
| General Industry | Large | 0 | 1,602 | - | 143 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 76 | - | - | 0.02 | - | \$26.65 | \$ - |
| Maritime | Large | 0 | 1,602 | - | 36 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 32 | - | - | 0.02 | - | \$26.65 | \$ - |
| Construction | Large | 2,000 | 1,602 | 0.1 | 1,232 | 77 | 77 | 0.02 | 1.28 | \$26.65 | \$ 34 |
| | Small | 1,000 | 1,602 | 0.03 | 4,932 | 154 | 154 | 0.02 | 3 | \$26.65 | \$ 68 |
| Government | State | 1,000 | 1,602 | 0.03 | 17 | 1 | 1 | 0.02 | 0.01 | \$26.65 | \$ 0.2 |
| | Local | 1,000 | 1,602 | 0.03 | 62 | 2 | 2 | 0.02 | 0.03 | \$26.65 | \$ 1 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | |

Table 18a

| VARIABLES | SIZE | GLOVEREPL | NOGLOVESCONT | 5% OF CONTAINERS NEED LABELS | #PLANTS | RESPONDENTS | RESPONSES | AFFIX | BURDEN HOURS | HCLWAGE | ITEM 12 COST |
|--|-------|-----------|--------------|------------------------------|---------|-------------|-----------|-------|--------------|---------|--------------|
| All | Large | 20,000 | 1,602 | 1 | 39 | 25 | 25 | 0.02 | 0.41 | \$26.65 | \$ 11 |
| | Small | 3,000 | 1,602 | 0.1 | 47 | 4 | 4 | 0.02 | 0 | \$26.65 | \$ 2 |
| Government | State | 20,000 | 1,602 | 1 | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Local | 3,000 | 1,602 | 0 | 24 | 2 | 2 | 0.02 | 0 | \$26.65 | \$ 1 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 0 | 1,602 | - | 18 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | |
| Industrial Rehabilitation and Maintenance | Large | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Small | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | State | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| | Local | 0 | 1,602 | - | 0 | - | - | 0.02 | - | \$26.65 | \$ - |
| Hazardous Waste-Site Work | Large | 14,000 | 1,602 | 0 | 43 | 19 | 19 | 0.02 | 0.31 | \$26.65 | \$ 8 |
| | Small | 3,000 | 1,602 | 0 | 180 | 17 | 17 | 0.02 | 0.3 | \$26.65 | \$ 7 |
| | State | 2,000 | 1,602 | 0 | 1 | 0.1 | 0.1 | 0.02 | 0.001 | \$26.65 | \$ 0.02 |
| Refractory Brick Restoration | Local | 3,000 | 1,602 | 0 | 252 | 24 | 24 | 0.02 | 0.4 | \$26.65 | \$ 10 |
| | Large | 14,000 | 1,602 | 0 | 47 | 20 | 20 | 0.02 | 0.34 | \$26.65 | \$ 9 |
| Total/Average | Small | 1,000 | 1,602 | 0 | 185 | 6 | 6 | 0.02 | 0.1 | \$26.65 | \$ 3 |
| | | | | | 67,548 | 6,295 | 6,295 | 0.02 | 105 | \$26.65 | \$ 2,798 |

Table 19

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.

BURDEN HOURS = #PLANTS * NOTIME

COST = Hours * SUPEWAGE

Variables:

#PLANTS = Number of plants represented by the model plant

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

NOTIME = Time to notify the laundry.

SUPEWAGE = Supervisory Wage Rate

| VARIABLES | SIZE | #PLANTS | # of PLANTS * 25% | RESPONDENTS | RESPONSES | NOTIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--------------------------------------|-------|---------|-------------------|-------------|-----------|--------|--------------|---------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | |
| All | Large | 1 | 0.25 | 0.25 | 0.25 | 0.08 | 0.02 | \$43.90 | \$ 1 |
| | Small | 1 | 0.25 | 0.25 | 0.25 | 0.08 | 0.02 | \$43.90 | \$ 1 |
| SECTOR 2A. WELDING | | | | | | | | | |
| General Industry | Large | 8,171 | 2,043 | 2,043 | 2,043 | 0.08 | 170 | \$43.90 | \$ 7,473 |
| | Small | 9,155 | 2,289 | 2,289 | 2,289 | 0.08 | 191 | \$43.90 | \$ 8,374 |
| Maritime | Large | 197 | 49 | 49 | 49 | 0.08 | 4 | \$43.90 | \$ 180 |
| | Small | 112 | 28 | 28 | 28 | 0.08 | 2 | \$43.90 | \$ 102 |
| Construction | Large | 278 | 70 | 70 | 70 | 0.08 | 6 | \$43.90 | \$ 255 |
| | Small | 2,231 | 558 | 558 | 558 | 0.08 | 46 | \$43.90 | \$ 2,040 |
| Government | State | 26 | 7 | 7 | 7 | 0.08 | 1 | \$43.90 | \$ 24 |
| | Local | 819 | 205 | 205 | 205 | 0.08 | 17 | \$43.90 | \$ 749 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | |
| General Industry | Large | 10,955 | 2,739 | 2,739 | 2,739 | 0.08 | 228 | \$43.90 | \$ 10,020 |
| | Small | 11,152 | 2,788 | 2,788 | 2,788 | 0.08 | 232 | \$43.90 | \$ 10,200 |
| Maritime | Large | 425 | 106 | 106 | 106 | 0.08 | 9 | \$43.90 | \$ 389 |
| | Small | 241 | 60 | 60 | 60 | 0.08 | 5 | \$43.90 | \$ 221 |
| Construction | Large | 418 | 104 | 104 | 104 | 0.08 | 9 | \$43.90 | \$ 382 |
| | Small | 3,158 | 789 | 789 | 789 | 0.08 | 66 | \$43.90 | \$ 2,888 |
| SECTOR 3. PAINTING | | | | | | | | | |
| Aerospace | Large | 50 | 12 | 12 | 12 | 0.08 | 1 | \$43.90 | \$ 45 |
| | Small | 62 | 16 | 16 | 16 | 0.08 | 1 | \$43.90 | \$ 57 |
| Autobody | Large | 330 | 83 | 83 | 83 | 0.08 | 7 | \$43.90 | \$ 302 |
| | Small | 1,454 | 364 | 364 | 364 | 0.08 | 30 | \$43.90 | \$ 1,330 |
| Coil Coating | Large | 101 | 25 | 25 | 25 | 0.08 | 2 | \$43.90 | \$ 92 |
| | Small | 18 | 5 | 5 | 5 | 0.08 | 0.4 | \$43.90 | \$ 17 |
| Maritime | Large | 274 | 69 | 69 | 69 | 0.08 | 6 | \$43.90 | \$ 251 |
| | Small | 474 | 119 | 119 | 119 | 0.08 | 10 | \$43.90 | \$ 434 |

Table 19

| VARIABLES | SIZE | # PLANTS | # of PLANTS * 25% | RESPONDENTS | RESPONSES | NOTIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--|-------|----------|-------------------|-------------|-----------|--------|--------------|---------|--------------|
| Construction | Large | 789 | 197 | 197 | 197 | 0.08 | 16 | \$43.90 | \$ 722 |
| | Small | 4,197 | 1,049 | 1,049 | 1,049 | 0.08 | 87 | \$43.90 | \$ 3,839 |
| Government | State | 17 | 4 | 4 | 4 | 0.08 | 0.4 | \$43.90 | \$ 16 |
| | Local | 945 | 236 | 236 | 236 | 0.08 | 20 | \$43.90 | \$ 864 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | |
| All | Large | 2 | 0.5 | 0.5 | 0.5 | 0.08 | 0.04 | \$43.90 | \$ 2 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | |
| All | Large | 2 | 0.4 | 0.4 | 0.4 | 0.08 | 0.03 | \$43.90 | \$ 2 |
| | Small | 1 | 0.2 | 0.2 | 0.2 | 0.08 | 0.02 | \$43.90 | \$ 1 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | |
| All | Large | 3 | 1 | 1 | 1 | 0.08 | 0.1 | \$43.90 | \$ 2 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | |
| All | Large | 5 | 1 | 1 | 1 | 0.08 | 0.1 | \$43.90 | \$ 4 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | |
| All | Large | 78 | 20 | 20 | 20 | 0.08 | 2 | \$43.90 | \$ 72 |
| | Small | 123 | 31 | 31 | 31 | 0.08 | 3 | \$43.90 | \$ 112 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | |
| All | Large | 2 | 1 | 1 | 1 | 0.08 | 0.05 | \$43.90 | \$ 2 |
| | Small | 7 | 2 | 2 | 2 | 0.08 | 0.2 | \$43.90 | \$ 7 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | |
| All | Large | 79 | 20 | 20 | 20 | 0.08 | 2 | \$43.90 | \$ 72 |
| | Small | 39 | 10 | 10 | 10 | 0.08 | 1 | \$43.90 | \$ 35 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | |
| All | Large | 6 | 1 | 1 | 1 | 0.08 | 0 | \$43.90 | \$ 5 |
| | Small | 4 | 1 | 1 | 1 | 0.08 | 0 | \$43.90 | \$ 4 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | |
| All | Large | 1 | 0.3 | 0.3 | 0.3 | 0.08 | 0.02 | \$43.90 | \$ 1 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | |
| General Industry | Large | 39 | 10 | 10 | 10 | 0.08 | 1 | \$43.90 | \$ 35 |
| | Small | 12 | 3 | 3 | 3 | 0.08 | 0.3 | \$43.90 | \$ 11 |
| Carbon Steel | Large | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | |
| Reshaping Industry | Large | 33 | 8 | 8 | 8 | 0.08 | 1 | \$43.90 | \$ 30 |
| | Small | 31 | 8 | 8 | 8 | 0.08 | 1 | \$43.90 | \$ 29 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | |
| All | Large | 152 | 38 | 38 | 38 | 0.08 | 3 | \$43.90 | \$ 139 |

Table 19

| VARIABLES | SIZE | #PLANTS | # of PLANTS *25% | RESPONDENTS | RESPONSES | NOTIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--|-------|---------|------------------|-------------|-----------|--------|--------------|---------|--------------|
| | Small | 111 | 28 | 28 | 28 | 0.08 | 2 | \$43.90 | \$ 101 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | |
| All | Large | 2 | 1 | 1 | 1 | 0.08 | 0.1 | \$43.90 | \$ 2 |
| | Small | 1 | 0.2 | 0.2 | 0.2 | 0.08 | 0.02 | \$43.90 | \$ 1 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | |
| All | Large | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | Small | 5 | 1 | 1 | 1 | 0.08 | 0.1 | \$43.90 | \$ 4 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | |
| All | Large | 212 | 53 | 53 | 53 | 0.08 | 4 | \$43.90 | \$ 194 |
| | Small | 1,600 | 400 | 400 | 400 | 0.08 | 33 | \$43.90 | \$ 1,463 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | |
| All | Large | 307 | 77 | 77 | 77 | 0.08 | 6 | \$43.90 | \$ 281 |
| | Small | 623 | 156 | 156 | 156 | 0.08 | 13 | \$43.90 | \$ 570 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | |
| All | Large | 8 | 2 | 2 | 2 | 0.08 | 0.2 | \$43.90 | \$ 7 |
| | Small | 24 | 6 | 6 | 6 | 0.08 | 1 | \$43.90 | \$ 22 |
| Fiber, Flat, and Container Glass | Large | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 22. PRINTING | | | | | | | | | |
| All | Large | 78 | 19 | 19 | 19 | 0.08 | 2 | \$43.90 | \$ 71 |
| | Small | 312 | 78 | 78 | 78 | 0.08 | 6 | \$43.90 | \$ 285 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | |
| Chromium Catalyst Users | Large | 193 | 48 | 48 | 48 | 0.08 | 4 | \$43.90 | \$ 176 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| Catalyst Service Companies | Large | 25 | 6 | 6 | 6 | 0.08 | 1 | \$43.90 | \$ 23 |
| | Small | 5 | 1 | 1 | 1 | 0.08 | 0.1 | \$43.90 | \$ 4 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | |
| All | Large | 5 | 1 | 1 | 1 | 0.08 | 0.1 | \$43.90 | \$ 5 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | |
| General Industry | Large | 143 | 36 | 36 | 36 | 0.08 | 3 | \$43.90 | \$ 131 |
| | Small | 76 | 19 | 19 | 19 | 0.08 | 2 | \$43.90 | \$ 70 |
| Maritime | Large | 36 | 9 | 9 | 9 | 0.08 | 1 | \$43.90 | \$ 33 |
| | Small | 32 | 8 | 8 | 8 | 0.08 | 1 | \$43.90 | \$ 29 |
| Construction | Large | 1,232 | 308 | 308 | 308 | 0.08 | 26 | \$43.90 | \$ 1,127 |
| | Small | 4,932 | 1,233 | 1,233 | 1,233 | 0.08 | 103 | \$43.90 | \$ 4,511 |
| Government | State | 17 | 4 | 4 | 4 | 0.08 | 0.4 | \$43.90 | \$ 16 |
| | Local | 62 | 15 | 15 | 15 | 0.08 | 1 | \$43.90 | \$ 56 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | |
| All | Large | 39 | 10 | 10 | 10 | 0.08 | 1 | \$43.90 | \$ 36 |
| | Small | 47 | 12 | 12 | 12 | 0.08 | 1 | \$43.90 | \$ 43 |

Table 19

| VARIABLES | SIZE | #PLANTS | # of PLANTS *25% | RESPONDENTS | RESPONSES | NOTIME | BURDEN HOURS | SUPWAGE | ITEM 12 COST |
|--|-------|---------|------------------|---------------|---------------|-------------|--------------|----------------|------------------|
| Government | State | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | Local | 24 | 6 | 6 | 6 | 0.08 | 0.5 | \$43.90 | \$ 22 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | |
| All | Large | 18 | 4 | 4 | 4 | 0.08 | 0.4 | \$43.90 | \$ 16 |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | |
| Industrial Rehabilitation and Maintenance | Large | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | Small | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | State | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| | Local | 0 | - | - | - | 0.08 | - | \$43.90 | \$ - |
| Hazardous Waste-Site Work | Large | 43 | 11 | 11 | 11 | 0.08 | 1 | \$43.90 | \$ 39 |
| | Small | 180 | 45 | 45 | 45 | 0.08 | 4 | \$43.90 | \$ 165 |
| | State | 1 | 0.2 | 0.2 | 0.2 | 0.08 | 0.02 | \$43.90 | \$ 1 |
| | Local | 252 | 63 | 63 | 63 | 0.08 | 5 | \$43.90 | \$ 231 |
| Refractory Brick Restoration | Large | 47 | 12 | 12 | 12 | 0.08 | 1 | \$43.90 | \$ 43 |
| | Small | 185 | 46 | 46 | 46 | 0.08 | 4 | \$43.90 | \$ 170 |
| Average/Total | | | 16,887 | 16,887 | 16,887 | 0.08 | 1,407 | \$43.90 | \$ 61,767 |

Table 20

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.

BURDEN HOURS = (POTEXEMP*5%)*MEDEXAMTIME * #PLANTS

COST = (POTEXEMP*5%) MEDEXAMTIME *NONSUPWAGE * #PLANTS

Variables:

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%

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 * 5%

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

NONSUPWAGE = Non-supervisory wage rate

#PLANTS = Number of Plants

| VARIABLES | SIZE | POTEXEMP | POTEXEMP * 5% | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMTIME | BURDEN HOURS | NONSUPWAGE | ITEM 12 COST |
|--------------------------------------|-------|----------|---------------|---------|-------------|-----------|-------------|--------------|------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| All | Large | 5 | 0.25 | 1,752 | 438 | 438 | 3 | 1,314 | \$32.54 | \$ 42,769 |
| | Small | 1 | 0.05 | 3,297 | 165 | 165 | 3 | 495 | \$32.54 | \$ 16,093 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| General Industry | Large | 2 | 0.1005 | 8,171 | 821 | 821 | 3 | 2,463 | \$32.54 | \$ 80,146 |
| | Small | 0 | 0 | 9,155 | - | - | 3 | - | \$32.54 | \$ - |
| Maritime | Large | 19 | 0.9545 | 197 | 188 | 188 | 3 | 564 | \$32.54 | \$ 18,351 |
| | Small | 1 | 0.0502 | 112 | 6 | 6 | 3 | 17 | \$32.54 | \$ 547 |
| Construction | Large | 51 | 2.5621 | 278 | 713 | 713 | 3 | 2,139 | \$32.54 | \$ 69,615 |
| | Small | 5 | 0.2512 | 2,231 | 560 | 560 | 3 | 1,681 | \$32.54 | \$ 54,699 |
| Government | Local | 2 | 0.1005 | 26 | 3 | 3 | 3 | 8 | \$32.54 | \$ 256 |
| | State | 0 | 0 | 819 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| General Industry | Large | 1 | 0.0502 | 10,955 | 550 | 550 | 3 | 1,651 | \$32.54 | \$ 53,728 |
| | Small | 0 | 0 | 11,152 | - | - | 3 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0 | 425 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 1 | 0.0502 | 241 | 12 | 12 | 3 | 36 | \$32.54 | \$ 1,183 |
| Construction | Large | 19 | 0.9545 | 418 | 399 | 399 | 3 | 1,197 | \$32.54 | \$ 38,949 |
| | Small | 2 | 0.1005 | 3,158 | 317 | 317 | 3 | 952 | \$32.54 | \$ 30,976 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| Aerospace | Large | 47 | 2.3399 | 50 | 116 | 116 | 3 | 348 | \$32.54 | \$ 11,319 |
| | Small | 1 | 0.0459 | 62 | 3 | 3 | 3 | 9 | \$32.54 | \$ 279 |
| Autobody | Large | 12 | 0.5964 | 330 | 197 | 197 | 3 | 591 | \$32.54 | \$ 19,235 |
| | Small | 1 | 0.0459 | 1,454 | 67 | 67 | 3 | 200 | \$32.54 | \$ 6,514 |
| Coil Coating | Large | 2 | 0.0918 | 101 | 9 | 9 | 3 | 28 | \$32.54 | \$ 904 |
| | Small | 1 | 0.0459 | 18 | 1 | 1 | 3 | 3 | \$32.54 | \$ 82 |

Table 20

| VARIABLES | SIZE | POTEXEMP | POTEXEMP * 5% | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|---------------|---------|-------------|-----------|-------------|--------------|-------------|--------------|
| Maritime | Large | 3 | 0.1282 | 274 | 35 | 35 | 3 | 106 | \$32.54 | \$ 3,435 |
| | Small | 1 | 0.0427 | 474 | 20 | 20 | 3 | 61 | \$32.54 | \$ 1,980 |
| Construction | Large | 2 | 0.1121 | 789 | 89 | 89 | 3 | 266 | \$32.54 | \$ 8,642 |
| | Small | 1 | 0.0374 | 4,197 | 157 | 157 | 3 | 471 | \$32.54 | \$ 15,315 |
| Government | Local | 9 | 0.4597 | 17 | 8 | 8 | 3 | 24 | \$32.54 | \$ 766 |
| | State | 1 | 0.0328 | 945 | 31 | 31 | 3 | 93 | \$32.54 | \$ 3,030 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| All | Large | 7 | 0.35 | 2 | 1 | 1 | 3 | 2 | \$32.54 | \$ 64 |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| All | Large | 20 | 1 | 2 | 2 | 2 | 3 | 5 | \$32.54 | \$ 163 |
| | Small | 2 | 0.1 | 1 | 0.1 | 0.1 | 3 | 0.2 | \$32.54 | \$ 8 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| All | Large | 3 | 0.15 | 3 | 0.4 | 0.4 | 3 | 1 | \$32.54 | \$ 38 |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| All | Large | 24 | 1.2 | 5 | 6 | 6 | 3 | 17 | \$32.54 | \$ 545 |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| All | Large | 5 | 0.25 | 78 | 20 | 20 | 3 | 59 | \$32.54 | \$ 1,909 |
| | Small | 2 | 0.1 | 123 | 12 | 12 | 3 | 37 | \$32.54 | \$ 1,200 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 0 | 2 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 7 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 0 | 0 | 79 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 39 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| All | Large | 3 | 0.15 | 6 | 1 | 1 | 3 | 3 | \$32.54 | \$ 87 |
| | Small | 1 | 0.05 | 4 | 0.2 | 0.2 | 3 | 1 | \$32.54 | \$ 19 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| All | Large | 14 | 0.7 | 1 | 1 | 1 | 3 | 2 | \$32.54 | \$ 65 |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| Alloy Stainless Steel | Large | 42 | 2.0822 | 39 | 81 | 81 | 3 | 242 | \$32.54 | \$ 7,871 |
| | Small | 1 | 0.0731 | 12 | 1 | 1 | 3 | 3 | \$32.54 | \$ 89 |
| Carbon Steel | Large | 10 | 0.5114 | 116 | 59 | 59 | 3 | 178 | \$32.54 | \$ 5,800 |
| | Small | 1 | 0.0731 | 37 | 3 | 3 | 3 | 8 | \$32.54 | \$ 261 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping | Large | 3 | 0.15 | 33 | 5 | 5 | 3 | 15 | \$32.54 | \$ 486 |
| | Small | 0 | 0 | 31 | - | - | 3 | - | \$32.54 | \$ - |

Table 20

| VARIABLES | SIZE | POTEXEMP | POTEXEMP * 5% | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|---------------|---------|-------------|-----------|-------------|--------------|-------------|--------------|
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| All | Large | 23 | 1.15 | 152 | 175 | 175 | 3 | 525 | \$32.54 | \$ 17,082 |
| | Small | 5 | 0.25 | 111 | 28 | 28 | 3 | 83 | \$32.54 | \$ 2,701 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 0 | 2 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 1 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 3 | 0.15 | 5 | 1 | 1 | 3 | 2 | \$32.54 | \$ 68 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| All | Large | 0 | 0 | 212 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 1,600 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| All | Large | 0 | 0 | 307 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 623 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| All | Large | 1 | 0.0645 | 8 | 0.5 | 0.5 | 3 | 1 | \$32.54 | \$ 49 |
| | Small | 0 | 0 | 24 | - | - | 3 | - | \$32.54 | \$ - |
| Fiber, Flat and Container Glass | Large | 14 | 0.709 | 111 | 79 | 79 | 3 | 236 | \$32.54 | \$ 7,674 |
| | Small | 3 | 0.1289 | 6 | 1 | 1 | 3 | 2 | \$32.54 | \$ 81 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| All | Large | 0 | 0 | 78 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 312 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| Catalyst Users | Large | 1 | 0.0591 | 193 | 11 | 11 | 3 | 34 | \$32.54 | \$ 1,110 |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 12 | 0.5906 | 25 | 15 | 15 | 3 | 44 | \$32.54 | \$ 1,430 |
| | Small | 6 | 0.2953 | 5 | 1 | 1 | 3 | 4 | \$32.54 | \$ 136 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| All | Large | 0 | 0 | 5 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | 1 | 0.0382 | 143 | 5 | 5 | 3 | 16 | \$32.54 | \$ 521 |
| | Small | 0 | 0 | 76 | - | - | 3 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0 | 36 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 32 | - | - | 3 | - | \$32.54 | \$ - |
| Construction | Large | 2 | 0.1241 | 1,232 | 153 | 153 | 3 | 459 | \$32.54 | \$ 14,934 |
| | Small | 1 | 0.0414 | 4,932 | 204 | 204 | 3 | 612 | \$32.54 | \$ 19,915 |
| Government | State | 1 | 0.0328 | 17 | 1 | 1 | 3 | 2 | \$32.54 | \$ 55 |
| | Local | 1 | 0.0328 | 62 | 2 | 2 | 3 | 6 | \$32.54 | \$ 198 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |

Table 20

| VARIABLES | SIZE | POTEXEMP | POTEXEMP * 5% | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------------|----------|---------------|---------------|--------------|--------------|-------------|---------------|----------------|-------------------|
| All | Large | 0 | 0 | 39 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 47 | - | - | 3 | - | \$32.54 | \$ - |
| Government | State | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 0 | 0 | 24 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 2 | 0.1 | 18 | 2 | 2 | 3 | 5 | \$32.54 | \$ 171 |
| | Small | 0 | 0 | 0 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0 | 54 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 247 | - | - | 3 | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0 | 16 | - | - | 3 | - | \$32.54 | \$ - |
| | Local Gov't | 0 | 0 | 93 | - | - | 3 | - | \$32.54 | \$ - |
| Hazardous Waste Site Work | Large | 0 | 0 | 43 | - | - | 3 | - | \$32.54 | \$ - |
| | Small | 0 | 0 | 180 | - | - | 3 | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0 | 1 | - | - | 3 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 11 | 0.5586 | 47 | 26 | 26 | 3 | 79 | \$32.54 | \$ 2,557 |
| | Small | 1 | 0.0559 | 185 | 10 | 10 | 3 | 31 | \$32.54 | \$ 1,011 |
| Total/Average | | | | 73,274 | 5,809 | 5,809 | 3 | 17,427 | \$32.54 | \$ 567,075 |

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.

$$\text{COST} = (\text{POTEXEMP} * 5\%) * \text{MEDEXAMCOST} * \text{\# PLANTS}$$

Variables:

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

MEDEXAMCOST = Cost of medical exam

\#PLANTS = Number of Plants

| | | \$0 | | | | |
|--------------------------------------|-------|----------|-------------|-------------|----------|-----------|
| Variables | Size | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | \#PLANTS | COST |
| SECTOR 1. ELECTROPLATING | | | | | | |
| All | Large | 5 | 0.2500 | \$175 | 1,752 | \$76,565 |
| | Small | 1 | 0.0500 | \$175 | 3,297 | \$28,810 |
| SECTOR 2A. WELDING | | | | | | |
| General Industry | Large | 2 | 0.1005 | \$175 | 8,171 | \$143,478 |
| | Small | 0 | 0.0000 | \$175 | 9,155 | \$0 |
| Maritime | Large | 19 | 0.9545 | \$175 | 197 | \$32,852 |
| | Small | 1 | 0.0502 | \$175 | 112 | \$979 |
| Construction | Large | 51 | 2.5621 | \$175 | 278 | \$124,626 |
| | Small | 5 | 0.2512 | \$175 | 2,231 | \$97,922 |
| Government | State | 2 | 0.1005 | \$175 | 26 | \$459 |
| | Local | 0 | 0.0000 | \$175 | 819 | \$0 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | |
| General Industry | Large | 1 | 0.0502 | \$175 | 10,955 | \$96,184 |
| | Small | 0 | 0.0000 | \$175 | 11,152 | \$0 |
| Maritime | Large | 0 | 0.0000 | \$175 | 425 | \$0 |
| | Small | 1 | 0.0502 | \$175 | 241 | \$2,117 |
| Construction | Large | 19 | 0.9545 | \$175 | 418 | \$69,728 |
| | Small | 2 | 0.1005 | \$175 | 3,158 | \$55,454 |
| SECTOR 3. PAINTING | | | | | | |
| GENERAL INDUSTRY | | | | | | |
| AEROSPACE | Large | 47 | 2.3399 | \$175 | 50 | \$20,263 |

Table 21

| Variables | Size | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|--|-------|----------|-------------|-------------|---------|----------|
| | Small | 1 | 0.0459 | \$175 | 62 | \$500 |
| Auto Body | Large | 12 | 0.5964 | \$175 | 330 | \$34,435 |
| | Small | 1 | 0.0459 | \$175 | 1,454 | \$11,662 |
| Coil Coating | Large | 2 | 0.0918 | \$175 | 101 | \$1,619 |
| | Small | 1 | 0.0459 | \$175 | 18 | \$147 |
| Maritime | Large | 3 | 0.1282 | \$175 | 274 | \$6,150 |
| | Small | 1 | 0.0427 | \$175 | 474 | \$3,544 |
| Construction | Large | 2 | 0.1121 | \$175 | 789 | \$15,472 |
| | Small | 1 | 0.0374 | \$175 | 4,197 | \$27,418 |
| Government | State | 9 | 0.4597 | \$175 | 17 | \$1,372 |
| | Local | 1 | 0.0328 | \$175 | 945 | \$5,424 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | |
| ALL | Large | 7 | 0.3500 | \$175 | 2 | \$114 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | |
| ALL | Large | 20 | 1.0000 | \$175 | 2 | \$291 |
| | Small | 2 | 0.1000 | \$175 | 1 | \$15 |
| SECTOR 6. CCA PRODUCERS | | | | | | |
| ALL | Large | 3 | 0.1500 | \$175 | 3 | \$68 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | |
| ALL | Large | 24 | 1.2000 | \$175 | 5 | \$976 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | |
| ALL | Large | 5 | 0.2500 | \$175 | 78 | \$3,418 |
| | Small | 2 | 0.1000 | \$175 | 123 | \$2,148 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 2 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 79 | \$0 |

Table 21

| Variables | Size | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|--|-------|----------|-------------|-------------|---------|----------|
| | Small | 0 | 0.0000 | \$175 | 39 | \$0 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | |
| ALL | Large | 3 | 0.1500 | \$175 | 6 | \$155 |
| | Small | 1 | 0.0500 | \$175 | 4 | \$34 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | |
| ALL | Large | 14 | 0.7000 | \$175 | 1 | \$127 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | |
| General Industry | Large | 42 | 2.0822 | \$175 | 39 | \$14,091 |
| | Small | 1 | 0.0731 | \$175 | 12 | \$159 |
| Carbon Steel | Large | 10 | 0.5114 | \$175 | 116 | \$10,383 |
| | Small | 1 | 0.0731 | \$175 | 37 | \$466 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | |
| Reshaping | Large | 3 | 0.1500 | \$175 | 33 | \$870 |
| | Small | 0 | 0.0000 | \$175 | 31 | \$0 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | |
| ALL | Large | 23 | 1.1500 | \$175 | 152 | \$30,580 |
| | Small | 5 | 0.2500 | \$175 | 111 | \$4,835 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 2 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 1 | \$0 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 0 | \$0 |
| | Small | 3 | 0.1500 | \$175 | 5 | \$122 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 212 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 307 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | |
| General Industry | Large | 1 | 0.0645 | \$175 | 8 | \$87 |

Table 21

| Variables | Size | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|--|-------|----------|-------------|-------------|---------|----------|
| | Small | 0 | 0.0000 | \$175 | 24 | \$0 |
| Fiber, Flat and Container Glass | Large | 14 | 0.7090 | \$175 | 111 | \$13,738 |
| | Small | 3 | 0.1289 | \$175 | 6 | \$145 |
| SECTOR 22. PRINTING | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 78 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | |
| General Industry | Large | 1 | 0.0591 | \$175 | 193 | \$1,987 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |
| Chromium Service Companies | Large | 12 | 0.5906 | \$175 | 25 | \$2,560 |
| | Small | 6 | 0.2953 | \$175 | 5 | \$244 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 5 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | |
| General Industry | Large | 1 | 0.0382 | \$175 | 143 | \$955 |
| | Small | 0 | 0.0000 | \$175 | 76 | \$0 |
| Maritime | Large | 0 | 0.0000 | \$175 | 36 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 32 | \$0 |
| Construction | Large | 2 | 0.1241 | \$175 | 1,232 | \$26,734 |
| | Small | 1 | 0.0414 | \$175 | 4,932 | \$35,670 |
| Government | State | 1 | 0.0328 | \$175 | 17 | \$98 |
| | Local | 1 | 0.0328 | \$175 | 62 | \$354 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | |
| ALL | Large | 0 | 0.0000 | \$175 | 39 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 47 | \$0 |
| Government | State | 0 | 0.0000 | \$175 | 0 | \$0 |
| | Local | 0 | 0.0000 | \$175 | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | |
| ALL | Large | 2 | 0.1000 | \$175 | 18 | \$306 |
| | Small | 0 | 0.0000 | \$175 | 0 | \$0 |

Table 21

| Variables | Size | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|---|-------|----------|-------------|-------------|---------------|--------------------|
| SECTOR 31. CONSTRUCTION | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.0000 | \$175 | 54 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 247 | \$0 |
| | State | 0 | 0.0000 | \$175 | 16 | \$0 |
| | Local | 0 | 0.0000 | \$175 | 93 | \$0 |
| Hazardous Waste Site Work | Large | 0 | 0.0000 | \$175 | 43 | \$0 |
| | Small | 0 | 0.0000 | \$175 | 180 | \$0 |
| | State | 0 | 0.0000 | \$175 | 1 | \$0 |
| | Local | 0 | 0.0000 | \$175 | 252 | \$0 |
| Refractory Brick Restoration | Large | 11 | 0.5586 | \$175 | 47 | \$4,578 |
| | Small | 1 | 0.0559 | \$175 | 185 | \$1,810 |
| Total | | | | | 73,274 | \$1,015,299 |

Table 22

TABLE 22: Annual Medical Examination (§§ 1910.1026(k)(2)(ii), (k)(3)(i), and (k)(3)(ii); 1915.1026(i)(2)(ii), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(2)(ii), (i)(3)(i), and (i)(3)(ii)) Employee Time and Cost to Complete the Annual Medical Examination

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

COST = (LIMEMPAL + MEDEXAMADDERM)*(LIMPARTIME * %BASEMED)+(LIMFULLTIME*(1-%BASEMED))*PLANTS
BURDEN HOURS = Burden Hours x NONSUPEWAGE

Variables:

- 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 | SIZE | LIMEMPAL | MEDEXAMADDERM | LIMPARTIME | %BASEMED | LIMFULLTIME | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | HOURS PER RESPONSE (FOR "ITEM 12 TABLE") | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COSTS |
|--|-------|----------|---------------|------------|----------|-------------|------------|---------|-------------|-----------|--|--------------|-------------|--------------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | |
| All | Large | 3 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 1,752 | 5,257 | 5,257 | 3 | 15,771 | \$32.54 \$ 513,225 |
| | Small | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 3,297 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 3 | 5.00% | 3.00 | 1 | 5.00% | 8,171 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 9,155 | - | - | 3 | - | \$32.54 \$ - |
| Maritime | Large | 14 | 3.014286 | 3 | 5.00% | 3.00 | 1 | 5.00% | 197 | 3,364 | 3,364 | 3 | 10,091 | \$32.54 \$ 328,388 |
| | Small | 1 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 112 | 112 | 112 | 3 | 336 | \$32.54 \$ 10,940 |
| Construction | Large | 27 | 3.014286 | 3 | 5.00% | 3.00 | 1 | 5.00% | 278 | 8,389 | 8,389 | 3 | 25,168 | \$32.54 \$ 818,999 |
| | Small | 3 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 2,231 | 6,724 | 6,724 | 3 | 20,171 | \$32.54 \$ 656,382 |
| Government | State | 0 | 0.000000 | 3 | 5.00% | 3.00 | 1 | 5.00% | 26 | - | - | 3 | - | \$32.54 \$ - |
| | Local | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 819 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 3 | 5.00% | 3.00 | 1 | 5.00% | 10,955 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 11,152 | - | - | 3 | - | \$32.54 \$ - |
| Maritime | Large | 0 | 0.000000 | 3 | 5.00% | 3.00 | 1 | 5.00% | 425 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 241 | - | - | 3 | - | \$32.54 \$ - |
| Construction | Large | 10 | 0.000000 | 3 | 5.00% | 3.00 | 1 | 5.00% | 418 | 4,200 | 4,200 | 3 | 12,599 | \$32.54 \$ 409,992 |
| | Small | 1 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 3,158 | 3,173 | 3,173 | 3 | 9,519 | \$32.54 \$ 309,761 |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | |
| Aerospace | Large | 46 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 50 | 2,273 | 2,273 | 3 | 6,820 | \$32.54 \$ 221,942 |
| | Small | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 62 | - | - | 3 | - | \$32.54 \$ - |
| Auto Body | Large | 1 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 330 | 303 | 303 | 3 | 909 | \$32.54 \$ 29,592 |
| | Small | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 1,454 | - | - | 3 | - | \$32.54 \$ - |
| Coil Coating | Large | 2 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 101 | 185 | 185 | 3 | 556 | \$32.54 \$ 18,084 |
| | Small | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 18 | 17 | 17 | 3 | 51 | \$32.54 \$ 1,644 |
| Maritime | Large | 2 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 274 | 469 | 469 | 3 | 1,408 | \$32.54 \$ 45,803 |
| | Small | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 474 | 406 | 406 | 3 | 1,217 | \$32.54 \$ 39,596 |
| Construction | Large | 2 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 789 | 1,771 | 1,771 | 3 | 5,312 | \$32.54 \$ 172,849 |
| | Small | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 4,197 | - | - | 3 | - | \$32.54 \$ - |
| Government | State | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 17 | - | - | 3 | - | \$32.54 \$ - |
| | Local | 9 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 945 | 8,689 | 8,689 | 3 | 26,068 | \$32.54 \$ 848,293 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | |
| All | Large | 7 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 2 | 13 | 13 | 3 | 39 | \$32.54 \$ 1,273 |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | |
| | Large | 7 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 2 | 12 | 12 | 3 | 35 | \$32.54 \$ 1,139 |

Table 22

| VARIABLES | SIZE | LIMEMPAL | MEEXAMADDERM | LIMPARTIME | %BASEMED | LIMPFULLTIME | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | HOURS PER RESPONSE (FOR "ITEM 12 TABLE") | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COSTS |
|--|-------|----------|--------------|------------|----------|--------------|------------|---------|-------------|-----------|---|--------------|-------------|--------------------|
| All | Small | 1 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 1 | 1 | 1 | 3 | 2 | \$32.54 \$ 81 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 2 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 3 | 5 | 5 | 3 | 16 | \$32.54 \$ 506 |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 11 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 5 | 51 | 51 | 3 | 154 | \$32.54 \$ 5,000 |
| | Small | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 1 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 78 | 78 | 78 | 3 | 235 | \$32.54 \$ 7,636 |
| | Small | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 123 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 2 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 7 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 79 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 39 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 3 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 6 | 18 | 18 | 3 | 53 | \$32.54 \$ 1,733 |
| | Small | 1 | 0.000000 | 3 | 30.00% | 3.00 | 1 | 30.00% | 4 | 4 | 4 | 3 | 12 | \$32.54 \$ 385 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 8 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 1 | 8 | 8 | 3 | 25 | \$32.54 \$ 812 |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | |
| General Industry | Large | 31 | 0.006751 | 3 | 50.00% | 3.00 | 1 | 50.00% | 39 | 1,188 | 1,188 | 3 | 3,565 | \$32.54 \$ 116,023 |
| | Small | 1 | 0.000321 | 3 | 30.00% | 3.00 | 1 | 30.00% | 12 | 18 | 18 | 3 | 54 | \$32.54 \$ 1,772 |
| Carbon Steel | Large | 1 | 0.000161 | 3 | 50.00% | 3.00 | 1 | 50.00% | 116 | 85 | 85 | 3 | 255 | \$32.54 \$ 8,287 |
| | Small | 1 | 0.000321 | 3 | 30.00% | 3.00 | 1 | 30.00% | 37 | 53 | 53 | 3 | 160 | \$32.54 \$ 5,212 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | |
| Reshaping | Large | 0 | 0.000643 | 3 | 50.00% | 3.00 | 1 | 50.00% | 33 \$ | 0.02 \$ | 0.02 | 3 \$ | 0.1 | \$32.54 \$ 2 |
| | Small | 0 | 0.000161 | 3 | 30.00% | 3.00 | 1 | 30.00% | 31 \$ | 0.01 \$ | 0.01 | 3 \$ | 0.02 | \$32.54 \$ 0.5 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | |
| All | Large | 16 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 152 | 2,434 | 2,434 | 3 | 7,303 | \$32.54 \$ 237,659 |
| | Small | 4 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 111 | 443 | 443 | 3 | 1,328 | \$32.54 \$ 43,211 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 2 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 1 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 1 | 0.000000 | 3 | 100.00% | 3.00 | 1 | 100.00% | 5 | 5 | 5 | 3 | 14 | \$32.54 \$ 455 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 212 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 1,600 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 307 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 623 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | |
| General Industry | Large | 1 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 8 | 10 | 10 | 3 | 30 | \$32.54 \$ 973 |
| | Small | 0 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 24 | - | - | 3 | - | \$32.54 \$ - |
| Fiber, Flat and Container Glass | Large | 12 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 111 | 1,286 | 1,286 | 3 | 3,859 | \$32.54 \$ 125,577 |
| | Small | 3 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 6 | 17 | 17 | 3 | 50 | \$32.54 \$ 1,622 |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 78 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 312 | - | - | 3 | - | \$32.54 \$ - |

Table 22

| VARIABLES | SIZE | LIMEMPAL | MEEXAMADDERM | LIMPARTIME | %BASEMED | LIMPFULLTIME | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | HOURS PER RESPONSE (FOR "ITEM 12 TABLE") | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COSTS |
|--|-------|----------|--------------|------------|----------|--------------|------------|---------------|---------------|---------------|---|----------------|-------------------|---------------------|
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 193 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| Chromium Service Companies | Large | 6 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 25 | 146 | 146 | 3 | 439 | \$32.54 \$ 14,300 |
| | Small | 4 | 0.000000 | 3 | 30.00% | 3.00 | 1 | 30.00% | 5 | 17 | 17 | 3 | 50 | \$32.54 \$ 1,634 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 80.00% | 3.00 | 1 | 80.00% | 5 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 10.00% | 3.00 | 1 | 10.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 3 | 25.00% | 3.00 | 1 | 25.00% | 143 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 76 | - | - | 3 | - | \$32.54 \$ - |
| Maritime | Large | 0 | 0.000000 | 3 | 25.00% | 3.00 | 1 | 25.00% | 36 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 0.00% | 3.00 | 1 | 0.00% | 32 | - | - | 3 | - | \$32.54 \$ - |
| Construction | Large | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 1,232 | 1,020 | 1,020 | 3 | 3,059 | \$32.54 \$ 99,557 |
| | Small | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 4,932 | 4,082 | 4,082 | 3 | 12,246 | \$32.54 \$ 398,496 |
| Government | State | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 17 | 11 | 11 | 3 | 34 | \$32.54 \$ 1,095 |
| | Local | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 62 | 41 | 41 | 3 | 122 | \$32.54 \$ 3,958 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 39 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 30.00% | 3.00 | 1 | 30.00% | 47 | - | - | 3 | - | \$32.54 \$ - |
| Government | State | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| | Local | 0 | 0.000000 | 3 | 30.00% | 3.00 | 1 | 30.00% | 24 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | |
| All | Large | 2 | 2.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 18 | 70 | 70 | 3 | 210 | \$32.54 \$ 6,847 |
| | Small | 0 | 0.000000 | 3 | 30.00% | 3.00 | 1 | 30.00% | 0 | - | - | 3 | - | \$32.54 \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 54 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 247 | - | - | 3 | - | \$32.54 \$ - |
| | State | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 16 | - | - | 3 | - | \$32.54 \$ - |
| | Local | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 93 | - | - | 3 | - | \$32.54 \$ - |
| Hazardous Waste Site Work | Large | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 43 | - | - | 3 | - | \$32.54 \$ - |
| | Small | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 180 | - | - | 3 | - | \$32.54 \$ - |
| | State | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 1 | - | - | 3 | - | \$32.54 \$ - |
| Refractory Brick Restoration | Local | 0 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 252 | - | - | 3 | - | \$32.54 \$ - |
| | Large | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 47 | 52 | 52 | 3 | 157 | \$32.54 \$ 5,114 |
| Small | 1 | 0.000000 | 3 | 50.00% | 3.00 | 1 | 50.00% | 185 | 207 | 207 | 3 | 621 | \$32.54 \$ 20,224 | |
| Weighted Average/Total | | | | | | | | 73,274 | 56,708 | 56,708 | 3 | 170,124 | \$32.54 | \$ 5,535,835 |

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.

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

Variables:

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

| 0 | | | | | | | | | |
|--------------------------------------|-------|----------|---------------|--------------|----------|-------------|------------|---------|--------------|
| Variables | Size | LIMEMPAL | MEDEXAMADDERM | PARTFULLCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
| SECTOR 1. ELECTROPLATING | | | | | | | | | |
| All | Large | 3 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 1,752 | \$ 783,390 |
| | Small | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 3,297 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | \$149 | 5.00% | \$175 * 1 | 5.00% | 8,171 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 9,155 | \$ - |
| Maritime | Large | 14 | 3.014286 | \$149 | 5.00% | \$175 * 1 | 5.00% | 197 | \$ 583,554 |
| | Small | 1 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 112 | \$ 19,584 |
| Construction | Large | 27 | 3.014286 | \$149 | 5.00% | \$175 * 1 | 5.00% | 278 | \$ 1,455,381 |
| | Small | 3 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 2,231 | \$ 1,175,064 |
| Government | State | 0 | 0.000000 | \$149 | 5.00% | \$175 * 1 | 5.00% | 26 | \$ - |
| | Local | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 819 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | \$149 | 5.00% | \$175 * 1 | 5.00% | 10,955 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 11,152 | \$ - |
| Maritime | Large | 0 | 0.000000 | \$149 | 5.00% | \$175 * 1 | 5.00% | 425 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 241 | \$ - |
| Construction | Large | 10 | 0.000000 | \$149 | 5.00% | \$175 * 1 | 5.00% | 418 | \$ 728,566 |
| | Small | 1 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 3,158 | \$ 554,539 |
| SECTOR 3. PAINTING | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| AEROSPACE | Large | 46 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 50 | \$ 350,484 |
| | Small | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 62 | \$ - |
| Auto Body | Large | 1 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 330 | \$ 46,731 |
| | Small | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 1,454 | \$ - |
| Coil Coating | Large | 2 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 101 | \$ 28,558 |

Table 23

| Variables | Size | LIMEMPAL | MEDEXAMADDERM | PARTFULLCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
|--|-------|----------|---------------|--------------|----------|-------------|------------|---------|--------------|
| | Small | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 18 | \$ 2,726 |
| Maritime | Large | 2 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 274 | \$ 69,915 |
| | Small | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 474 | \$ 65,663 |
| Construction | Large | 2 | 0.000000 | \$149 | 100.00% | \$150 * 1 | 100.00% | 789 | \$ 263,837 |
| | Small | 0 | 0.000000 | \$149 | 100.00% | \$150 * 1 | 100.00% | 4,197 | \$ - |
| Government | State | 0 | 0.000000 | \$149 | 100.00% | \$150 * 1 | 100.00% | 17 | \$ - |
| | Local | 9 | 0.000000 | \$149 | 100.00% | \$150 * 1 | 100.00% | 945 | \$ 1,294,842 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | |
| ALL | Large | 7 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 2 | \$ 2,111 |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 0 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | |
| ALL | Large | 7 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 2 | \$ 1,738 |
| | Small | 1 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 1 | \$ 124 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | |
| ALL | Large | 2 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 3 | \$ 772 |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 0 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | |
| ALL | Large | 11 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 5 | \$ 7,632 |
| | Small | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 0 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | |
| ALL | Large | 1 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 78 | \$ 11,656 |
| | Small | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 123 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 2 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 7 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 79 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 39 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | |
| ALL | Large | 3 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 6 | \$ 2,874 |
| | Small | 1 | 0.000000 | \$149 | 30.00% | \$175 * 1 | 30.00% | 4 | \$ 659 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | |
| ALL | Large | 8 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 1 | \$ 1,239 |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 0 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | |
| General Industry | Large | 31 | 0.006751 | \$149 | 50.00% | \$175 * 1 | 50.00% | 39 | \$ 192,403 |
| | Small | 1 | 0.000321 | \$149 | 30.00% | \$175 * 1 | 30.00% | 12 | \$ 3,032 |
| Carbon Steel | Large | 1 | 0.000161 | \$149 | 50.00% | \$175 * 1 | 50.00% | 116 | \$ 13,743 |
| | Small | 1 | 0.000321 | \$149 | 30.00% | \$175 * 1 | 30.00% | 37 | \$ 8,918 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | |

Table 23

| Variables | Size | LIMEMPAL | MEDEXAMADDERM | PARTFULLCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
|--|-------|----------|---------------|--------------|----------|-------------|------------|----------|---------|
| Reshaping | Large | 0 | 0.000643 | \$149 | 50.00% | \$175 * 1 | 50.00% | 33 \$ | 3 |
| | Small | 0 | 0.000161 | \$149 | 30.00% | \$175 * 1 | 30.00% | 31 \$ | 1 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | |
| ALL | Large | 16 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 152 \$ | 375,304 |
| | Small | 4 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 111 \$ | 76,217 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 2 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 1 \$ | - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 0 \$ | - |
| | Small | 1 | 0.000000 | \$149 | 100.00% | \$175 * 1 | 100.00% | 5 \$ | 694 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 212 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 1,600 \$ | - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 307 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 623 \$ | - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | |
| General Industry | Large | 1 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 8 \$ | 1,537 |
| | Small | 0 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 24 \$ | - |
| Fiber, Flat and Container Glass | Large | 12 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 111 \$ | 198,307 |
| | Small | 3 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 6 \$ | 2,862 |
| SECTOR 22. PRINTING | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 78 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 312 \$ | - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 193 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 0 \$ | - |
| Chromium Service Companies | Large | 6 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 25 \$ | 22,582 |
| | Small | 4 | 0.000000 | \$149 | 30.00% | \$175 * 1 | 30.00% | 5 \$ | 2,796 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 80.00% | \$175 * 1 | 80.00% | 5 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 10.00% | \$175 * 1 | 10.00% | 0 \$ | - |
| SECTOR 26. WOODWORKING | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | \$149 | 25.00% | \$175 * 1 | 25.00% | 143 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 76 \$ | - |
| Maritime | Large | 0 | 0.000000 | \$149 | 25.00% | \$175 * 1 | 25.00% | 36 \$ | - |
| | Small | 0 | 0.000000 | \$149 | 0.00% | \$175 * 1 | 0.00% | 32 \$ | - |
| | Large | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 1,232 \$ | 165,097 |

Table 23

| Variables | Size | LIMEMPAL | MEDEXAMADDERM | PARTFULLCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
|--|-------|----------|---------------|--------------|----------|-------------|------------|---------------|---------------------|
| Construction | Small | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 4,932 | \$ 660,830 |
| Government | State | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 17 | \$ 1,816 |
| | Local | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 62 | \$ 6,564 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 39 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 30.00% | \$175 * 1 | 30.00% | 47 | \$ - |
| Government | State | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 0 | \$ - |
| | Local | 0 | 0.000000 | \$149 | 30.00% | \$175 * 1 | 30.00% | 24 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 2 | 2.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 18 | \$ 11,355 |
| | Small | 0 | 0.000000 | \$149 | 30.00% | \$175 * 1 | 30.00% | 0 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 54 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 247 | \$ - |
| | State | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 16 | \$ - |
| | Local | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 93 | \$ - |
| Hazardous Waste Site Work | Large | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 43 | \$ - |
| | Small | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 180 | \$ - |
| | State | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 1 | \$ - |
| Refractory Brick Restoration | Local | 0 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 252 | \$ - |
| | Large | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 47 | \$ 8,480 |
| | Small | 1 | 0.000000 | \$149 | 50.00% | \$175 * 1 | 50.00% | 185 | \$ 33,538 |
| Total | | | | | | | | 73,274 | \$ 9,237,718 |

Table 24

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

Variables:

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 | SIZE | POTEXEMP * 5% | %PREVABN | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMADDAL | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|---------------|----------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | |
| All | Large | 0.2500 | 0.50% | 1,752 | 2 | 2 | 4 | 9 | \$32.54 | \$ 285 |
| | Small | 0.0500 | 0.50% | 3,297 | 1 | 1 | 4 | 3 | \$32.54 | \$ 107 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| General Industry | Large | 0.1005 | 0.50% | 8,171 | 4 | 4 | 4 | 16 | \$32.54 | \$ 534 |
| | Small | 0.0000 | 0.50% | 9,155 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 0.9545 | 0.50% | 197 | 1 | 1 | 4 | 4 | \$32.54 | \$ 122 |
| | Small | 0.0502 | 0.50% | 112 | 0.03 | 0.03 | 4 | 0.1 | \$32.54 | \$ 4 |
| Construction | Large | 2.5621 | 0.50% | 278 | 4 | 4 | 4 | 14 | \$32.54 | \$ 464 |
| | Small | 0.2512 | 0.50% | 2,231 | 3 | 3 | 4 | 11 | \$32.54 | \$ 365 |
| Government | State | 0.1005 | 0.50% | 26 | 0.01 | 0.01 | 4 | 0.1 | \$32.54 | \$ 2 |
| | Local | 0.0000 | 0.50% | 819 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| General Industry | Large | 0.0502 | 0.50% | 10,955 | 3 | 3 | 4 | 11 | \$32.54 | \$ 358 |
| | Small | 0.0000 | 0.50% | 11,152 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 0.0000 | 0.50% | 425 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0502 | 0.50% | 241 | 0.1 | 0.1 | 4 | 0.2 | \$32.54 | \$ 8 |
| Construction | Large | 0.9545 | 0.50% | 418 | 2 | 2 | 4 | 8 | \$32.54 | \$ 260 |
| | Small | 0.1005 | 0.50% | 3,158 | 2 | 2 | 4 | 6 | \$32.54 | \$ 207 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| Aerospace | Large | 2.3399 | 0.50% | 50 | 1 | 1 | 4 | 2 | \$32.54 | \$ 75 |
| | Small | 0.0459 | 0.50% | 62 | 0.01 | 0.01 | 4 | 0.1 | \$32.54 | \$ 2 |
| Autobody Repair | Large | 0.5964 | 0.50% | 330 | 1 | 1 | 4 | 4 | \$32.54 | \$ 128 |
| | Small | 0.0459 | 0.50% | 1,454 | 0.3 | 0.3 | 4 | 1 | \$32.54 | \$ 43 |
| Coil Coating | Large | 0.0918 | 0.50% | 101 | 0.05 | 0.05 | 4 | 0.2 | \$32.54 | \$ 6 |

Table 24

| VARIABLES | SIZE | POTEXEMP * 5% | %PREVABN | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMADDAL | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------------|----------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| | Small | 0.0459 | 0.50% | 18 | 0.004 | 0.004 | 4 | 0.0 | \$32.54 | \$ 1 |
| Maritime | Large | 0.1282 | 0.50% | 274 | 0.2 | 0.2 | 4 | 1 | \$32.54 | \$ 23 |
| | Small | 0.0427 | 0.50% | 474 | 0.1 | 0.1 | 4 | 0.4 | \$32.54 | \$ 13 |
| Construction | Large | 0.1121 | 0.50% | 789 | 0.4 | 0.4 | 4 | 2 | \$32.54 | \$ 58 |
| | Small | 0.0374 | 0.50% | 4,197 | 1 | 1 | 4 | 3 | \$32.54 | \$ 102 |
| Government | State | 0.4597 | 0.50% | 17 | 0.04 | 0.04 | 4 | 0.2 | \$32.54 | \$ 5 |
| | Local | 0.0328 | 0.50% | 945 | 0.2 | 0.2 | 4 | 1 | \$32.54 | \$ 20 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| All | Large | 0.3500 | 0.50% | 2 | 0.003 | 0.00 | 4 | 0.01 | \$32.54 | 0.4 |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| All | Large | 1.0000 | 0.50% | 2 | 0.01 | 0.01 | 4 | 0.03 | \$32.54 | \$ 1 |
| | Small | 0.1000 | 0.50% | 1 | 0.0004 | 0.0004 | 4 | 0.002 | \$32.54 | 0.1 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| All | Large | 0.1500 | 0.50% | 3 | 0.002 | 0.002 | 4 | 0.01 | \$32.54 | 0.3 |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| All | Large | 1.2000 | 0.50% | 5 | 0.03 | 0.03 | 4 | 0.1 | \$32.54 | \$ 4 |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| All | Large | 0.2500 | 0.50% | 78 | 0.1 | 0.1 | 4 | 0.4 | \$32.54 | \$ 13 |
| | Small | 0.1000 | 0.50% | 123 | 0.1 | 0.1 | 4 | 0.2 | \$32.54 | \$ 8 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 2 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 7 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 79 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 39 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| All | Large | 0.1500 | 0.50% | 6 | 0.004 | 0.004 | 4 | 0.018 | \$32.54 | \$ 1 |
| | Small | 0.0500 | 0.50% | 4 | 0.001 | 0.001 | 4 | 0.004 | \$32.54 | 0.1 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| All | Large | 0.7000 | 0.50% | 1 | 0.004 | 0.004 | 4 | 0.01 | \$32.54 | 0.5 |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| All | Large | 2.0822 | 0.50% | 39 | 0.4 | 0.4 | 4 | 2 | \$32.54 | \$ 52 |
| | Small | 0.0731 | 0.50% | 12 | 0.005 | 0.005 | 4 | 0.02 | \$32.54 | \$ 1 |
| Carbon Steel | Large | 0.5114 | 0.50% | 116 | 0.3 | 0.3 | 4 | 1 | \$32.54 | \$ 39 |

Table 24

| VARIABLES | SIZE | POTEXEMP * 5% | %PREVABN | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMADDAL | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|---------------|----------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| | Small | 0.0731 | 0.50% | 37 | 0.01 | 0.01 | 4 | 0.1 | \$32.54 | \$ 2 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping Industry | Large | 0.1500 | 0.50% | 33 | 0.02 | 0.02 | 4 | 0.1 | \$32.54 | \$ 3 |
| | Small | 0.0000 | 0.50% | 31 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| All | Large | 1.1500 | 0.50% | 152 | 1 | 1 | 4 | 3 | \$32.54 | \$ 114 |
| | Small | 0.2500 | 0.50% | 111 | 0.1 | 0.1 | 4 | 1 | \$32.54 | \$ 18 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 2 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.1500 | 0.50% | 5 | \$ 0.003 | \$ 0.003 | 4 | \$ 0.01 | \$32.54 | \$ 0.5 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 212 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 1,600 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 307 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 623 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| All | Large | 0.0645 | 0.50% | 8 | 0.002 | 0.002 | 4 | 0.01 | \$32.54 | \$ 0.3 |
| | Small | 0.0000 | 0.50% | 24 | - | - | 4 | - | \$32.54 | \$ - |
| Fiber, Flat and Container Glass | Large | 0.7090 | 0.50% | 111 | 0.4 | 0.4 | 4 | 2 | \$32.54 | \$ 51 |
| | Small | 0.1289 | 0.50% | 6 | 0.004 | 0.004 | 4 | 0.02 | \$32.54 | \$ 1 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 78 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 312 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| All | Large | 0.0591 | 0.50% | 193 | 0.1 | 0.1 | 4 | 0.2 | \$32.54 | \$ 7 |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| Catalyst Service Companies | Large | 0.5906 | 0.50% | 25 | 0.1 | 0.1 | 4 | 0.3 | \$32.54 | \$ 10 |
| | Small | 0.2953 | 0.50% | 5 | 0.01 | 0.01 | 4 | 0.03 | \$32.54 | \$ 1 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 5 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | 0.0382 | 0.50% | 143 | 0.03 | 0.03 | 4 | 0.1 | \$32.54 | \$ 4 |
| | Small | 0.0000 | 0.50% | 76 | - | - | 4 | - | \$32.54 | \$ - |
| | Large | 0.0000 | 0.50% | 36 | - | - | 4 | - | \$32.54 | \$ - |

Table 24

| VARIABLES | SIZE | POTEXEMP * 5% | %PREVABN | #PLANTS | RESPONDENTS | RESPONSES | MEDEXAMADDAL | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------------|---------------|----------|---------------|-------------|-----------|--------------|--------------|----------------|-----------------|
| Maritime | Small | 0.0000 | 0.50% | 32 | - | - | 4 | - | \$32.54 | \$ - |
| Construction | Large | 0.1241 | 0.50% | 1,232 | 1 | 1 | 4 | 3 | \$32.54 | \$ 100 |
| | Small | 0.0414 | 0.50% | 4,932 | 1 | 1 | 4 | 4 | \$32.54 | \$ 133 |
| Government | Local | 0.0328 | 0.50% | 17 | 0.003 | 0.003 | 4 | 0.01 | \$32.54 | \$ 0.4 |
| | State | 0.0328 | 0.50% | 62 | 0.01 | 0.01 | 4 | 0.04 | \$32.54 | \$ 1 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| All | Large | 0.0000 | 0.50% | 39 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 47 | - | - | 4 | - | \$32.54 | \$ - |
| Government | Local | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| | State | 0.0000 | 0.50% | 24 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| All | Large | 0.1000 | 0.50% | 18 | 0.01 | 0.01 | 4 | 0.04 | \$32.54 | \$ 1 |
| | Small | 0.0000 | 0.50% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0.0000 | 0.50% | 54 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 247 | - | - | 4 | - | \$32.54 | \$ - |
| | State Gov't | 0.0000 | 0.50% | 16 | - | - | 4 | - | \$32.54 | \$ - |
| | Local Gov't | 0.0000 | 0.50% | 93 | - | - | 4 | - | \$32.54 | \$ - |
| Hazardous Waste Site Work | Large | 0.0000 | 0.50% | 43 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0.0000 | 0.50% | 180 | - | - | 4 | - | \$32.54 | \$ - |
| | State Gov't | 0.0000 | 0.50% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| Refractory Brick Restoration & Maintenance | Local Gov't | 0.0000 | 0.50% | 252 | - | - | 4 | - | \$32.54 | \$ - |
| | Large | 0.5586 | 0.50% | 47 | 0.1 | 0.1 | 4 | 1 | \$32.54 | \$ 17 |
| | Small | 0.0559 | 0.50% | 185 | 0.1 | 0.1 | 4 | 0.2 | \$32.54 | \$ 7 |
| Total/Average | | | | 73,274 | 29 | 29 | 4 | 116 | \$32.54 | \$ 3,775 |

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.

Variables:

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

0.0500

| Variables | Size | 0 | | | | |
|--------------------------------------|-------|---------------|----------|------------|---------|---------|
| | | POTEXEMP * 5% | %PREVABN | MEDCOSTADD | #PLANTS | Cost |
| SECTOR 1. ELECTROPLATING | | | | | | |
| All | Large | 0.2500 | 0.50% | \$298.04 | 1,752 | \$653 |
| | Small | 0.0500 | 0.50% | \$298.04 | 3,297 | \$246 |
| SECTOR 2A. WELDING | | | | | | |
| General Industry | Large | 0.1005 | 0.50% | \$298.04 | 8,171 | \$1,223 |
| | Small | 0.0000 | 0.50% | \$298.04 | 9,155 | \$0 |
| Maritime | Large | 0.9545 | 0.50% | \$298.04 | 197 | \$280 |
| | Small | 0.0502 | 0.50% | \$298.04 | 112 | \$8 |
| Construction | Large | 2.5621 | 0.50% | \$298.04 | 278 | \$1,063 |
| | Small | 0.2512 | 0.50% | \$298.04 | 2,231 | \$835 |
| Government | State | 0.1005 | 0.50% | \$298.04 | 26 | \$4 |
| | Local | 0.0000 | 0.50% | \$298.04 | 819 | \$0 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | |
| General Industry | Large | 0.0502 | 0.50% | \$298.04 | 10,955 | \$820 |
| | Small | 0.0000 | 0.50% | \$298.04 | 11,152 | \$0 |
| Maritime | Large | 0.0000 | 0.50% | \$298.04 | 425 | \$0 |
| | Small | 0.0502 | 0.50% | \$298.04 | 241 | \$18 |
| Construction | Large | 0.9545 | 0.50% | \$298.04 | 418 | \$595 |
| | Small | 0.1005 | 0.50% | \$298.04 | 3,158 | \$473 |
| SECTOR 3. PAINTING | | | | | | |
| General Industry AEROSPACE | Large | 2.3399 | 0.50% | \$298.04 | 50 | \$173 |

Table 25

| Variables | Size | POTEXEMP * 5% | %PREVABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------|---------------|----------|------------|---------|-------|
| | Small | 0.0459 | 0.50% | \$298.04 | 62 | \$4 |
| General Industry AUTOBODY | Large | 0.5964 | 0.50% | \$298.04 | 330 | \$294 |
| | Small | 0.0459 | 0.50% | \$298.04 | 1,454 | \$99 |
| COIL COATING | Large | 0.0918 | 0.50% | \$298.04 | 101 | \$14 |
| | Small | 0.0459 | 0.50% | \$298.04 | 18 | \$1 |
| Maritime | Large | 0.1282 | 0.50% | \$298.04 | 274 | \$52 |
| | Small | 0.0427 | 0.50% | \$298.04 | 474 | \$30 |
| Construction | Large | 0.1121 | 0.50% | \$298.04 | 789 | \$132 |
| | Small | 0.0374 | 0.50% | \$298.04 | 4,197 | \$234 |
| Governments | State | 0.4597 | 0.50% | \$298.04 | 17 | \$12 |
| | Local | 0.0328 | 0.50% | \$298.04 | 945 | \$46 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | |
| ALL | Large | 0.3500 | 0.50% | \$298.04 | 2 | \$1 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | |
| ALL | Large | 1.0000 | 0.50% | \$298.04 | 2 | \$2 |
| | Small | 0.1000 | 0.50% | \$298.04 | 1 | \$0 |
| SECTOR 6. CCA PRODUCERS | | | | | | |
| ALL | Large | 0.1500 | 0.50% | \$298.04 | 3 | \$1 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | |
| ALL | Large | 1.2000 | 0.50% | \$298.04 | 5 | \$8 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | |
| ALL | Large | 0.2500 | 0.50% | \$298.04 | 78 | \$29 |
| | Small | 0.1000 | 0.50% | \$298.04 | 123 | \$18 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 2 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 79 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 39 | \$0 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | |

Table 25

| Variables | Size | POTXEMP * 5% | %PREVABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------|--------------|----------|------------|---------|-------|
| ALL | Large | 0.1500 | 0.50% | \$298.04 | 6 | \$1 |
| | Small | 0.0500 | 0.50% | \$298.04 | 4 | \$0 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | |
| ALL | Large | 0.7000 | 0.50% | \$298.04 | 1 | \$1 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | |
| ALL | Large | 2.0822 | 0.50% | \$298.04 | 39 | \$120 |
| | Small | 0.0731 | 0.50% | \$298.04 | 12 | \$1 |
| Carbon Steel | Large | 0.5114 | 0.50% | \$298.04 | 116 | \$89 |
| | Small | 0.0731 | 0.50% | \$298.04 | 37 | \$4 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | |
| ALL | Large | 0.1500 | 0.50% | \$298.04 | 33 | \$7 |
| | Small | 0.0000 | 0.50% | \$298.04 | 31 | \$0 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | |
| ALL | Large | 1.1500 | 0.50% | \$298.04 | 152 | \$261 |
| | Small | 0.2500 | 0.50% | \$298.04 | 111 | \$41 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 2 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 1 | \$0 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| | Small | 0.1500 | 0.50% | \$298.04 | 5 | \$1 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 212 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 307 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | |
| ALL | Large | 0.0645 | 0.50% | \$298.04 | 8 | \$1 |
| | Small | 0.0000 | 0.50% | \$298.04 | 24 | \$0 |
| Fiber, Flat, Container Glass | Large | 0.7090 | 0.50% | \$298.04 | 111 | \$117 |
| | Small | 0.1289 | 0.50% | \$298.04 | 6 | \$1 |

Table 25

| Variables | Size | POTXEMP * 5% | %PREVABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------------|--------------|----------|------------|---------|-------|
| SECTOR 22. PRINTING | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 78 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | |
| ALL | Large | 0.0591 | 0.50% | \$298.04 | 193 | \$17 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| Chromium Catalyst Companies | Large | 0.5906 | 0.50% | \$298.04 | 25 | \$22 |
| | Small | 0.2953 | 0.50% | \$298.04 | 5 | \$2 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 5 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | |
| General Industry | Large | 0.0382 | 0.50% | \$298.04 | 143 | \$8 |
| | Small | 0.0000 | 0.50% | \$298.04 | 76 | \$0 |
| Maritime | Large | 0.0000 | 0.50% | \$298.04 | 36 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 32 | \$0 |
| Construction | Large | 0.1241 | 0.50% | \$298.04 | 1,232 | \$228 |
| | Small | 0.0414 | 0.50% | \$298.04 | 4,932 | \$304 |
| Government | State | 0.0328 | 0.50% | \$298.04 | 17 | \$1 |
| | Local | 0.0328 | 0.50% | \$298.04 | 62 | \$3 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | |
| ALL | Large | 0.0000 | 0.50% | \$298.04 | 39 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 47 | \$0 |
| Government | State | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| | Local | 0.0000 | 0.50% | \$298.04 | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | |
| ALL | Large | 0.1000 | 0.50% | \$298.04 | 18 | \$3 |
| | Small | 0.0000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0.0000 | 0.50% | \$298.04 | 54 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 247 | \$0 |
| | State Gov't | 0.0000 | 0.50% | \$298.04 | 16 | \$0 |

Table 25

| Variables | Size | POTEXEMP * 5% | %PREVABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------------|---------------|----------|------------|---------------|----------------|
| | Local Gov't | 0.0000 | 0.50% | \$298.04 | 93 | \$0 |
| Hazardous Waste Site Work | Large | 0.0000 | 0.50% | \$298.04 | 43 | \$0 |
| | Small | 0.0000 | 0.50% | \$298.04 | 180 | \$0 |
| | State Gov't | 0.0000 | 0.50% | \$298.04 | 1 | \$0 |
| | Local Gov't | 0.0000 | 0.50% | \$298.04 | 252 | \$0 |
| Refractory Brick Restoration & Maintenance | Large | 0.5586 | 0.50% | \$298.04 | 47 | \$39 |
| | Small | 0.0559 | 0.50% | \$298.04 | 185 | \$15 |
| Total | | | | | 73,274 | \$8,657 |

Table 26

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.

BURDEN HOURS = (LIMEMPAL + MEDEXAMADDERM) * %ALABN * ADDMEDTIME * #PLANTS
COST = BURDEN HOURS * NONSUPWAGE

Variables:

- 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 | SIZE | LIMEMPAL | MEDEXAMADDERM | %ALABN | ADDMEDTIME | #PLANTS | RESPONDENTS | RESPONSES | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--------------------------------------|-------|----------|---------------|--------|------------|---------|-------------|-----------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | |
| All | Large | 3 | 0.00000 | 0.50% | 3 | 1,752 | 26 | 26 | 79 | \$32.54 | \$ 2,566 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 3,297 | - | - | - | \$32.54 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 0.50% | 3 | 8,171 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 9,155 | - | - | - | \$32.54 | \$ - |
| Maritime | Large | 14 | 3.01429 | 0.50% | 3 | 197 | 17 | 17 | 50 | \$32.54 | \$ 1,642 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 112 | 1 | 1 | 2 | \$32.54 | \$ 55 |
| Construction | Large | 27 | 3.01429 | 0.50% | 3 | 278 | 42 | 42 | 126 | \$32.54 | \$ 4,095 |
| | Small | 3 | 0.00000 | 0.50% | 3 | 2,231 | 34 | 34 | 101 | \$32.54 | \$ 3,282 |
| Government | Local | 0 | 0.00000 | 0.50% | 3 | 26 | - | - | - | \$32.54 | \$ - |
| | State | 0 | 0.00000 | 0.50% | 3 | 819 | - | - | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 0.50% | 3 | 10,955 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 11,152 | - | - | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0.00000 | 0.50% | 3 | 425 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 241 | - | - | - | \$32.54 | \$ - |
| Construction | Large | 10 | 0.00000 | 0.50% | 3 | 418 | 21 | 21 | 63 | \$32.54 | \$ 2,050 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 3,158 | 16 | 16 | 48 | \$32.54 | \$ 1,549 |
| SECTOR 3. PAINTING | | | | | | | | | | | |
| Aerospace | Large | 46 | 0.00000 | 0.50% | 3 | 50 | 11 | 11 | 34 | \$32.54 | \$ 1,110 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 62 | - | - | - | \$32.54 | \$ - |
| Autobody | Large | 1 | 0.00000 | 0.50% | 3 | 330 | 2 | 2 | 5 | \$32.54 | \$ 148 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 1,454 | - | - | - | \$32.54 | \$ - |
| Coil Coating | Large | 2 | 0.00000 | 0.50% | 3 | 101 | 1 | 1 | 3 | \$32.54 | \$ 90 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 18 | 0.1 | 0.1 | 0.3 | \$32.54 | \$ 8 |

Table 26

| VARIABLES | SIZE | LIMEMPAL | MEDEXAMADDERM | %ALABN | ADDMEDTIME | #PLANTS | RESPONDENTS | RESPONSES | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|---------------|--------|------------|---------|-------------|-----------|--------------|-------------|--------------|
| Maritime | Large | 2 | 0.00000 | 0.50% | 3 | 274 | 2 | 2 | 7 | \$32.54 | \$ 229 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 474 | 2 | 2 | 6 | \$32.54 | \$ 198 |
| Construction | Large | 2 | 0.00000 | 0.50% | 3 | 789 | 9 | 9 | 27 | \$32.54 | \$ 864 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 4,197 | - | - | - | \$32.54 | \$ - |
| Government | Local | 0 | 0.00000 | 0.50% | 3 | 17 | - | - | - | \$32.54 | \$ - |
| | State | 9 | 0.00000 | 0.50% | 3 | 945 | 43 | 43 | 130 | \$32.54 | \$ 4,241 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | |
| All | Large | 7 | 0.00000 | 0.50% | 3 | 2 | 0.1 | 0.1 | 0.2 | \$32.54 | \$ 6 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | |
| All | Large | 7 | 0.00000 | 0.50% | 3 | 2 | 0.1 | 0.1 | 0.2 | \$32.54 | \$ 6 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 1 | 0.004 | 0.004 | 0.01 | \$32.54 | \$ 0.4 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | |
| All | Large | 2 | 0.00000 | 0.50% | 3 | 3 | 0.03 | 0.03 | 0.1 | \$32.54 | \$ 3 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | |
| All | Large | 11 | 0.00000 | 0.50% | 3 | 5 | 0.3 | 0.3 | 1 | \$32.54 | \$ 25 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | |
| All | Large | 1 | 0.00338 | 0.50% | 3 | 78 | 0.4 | 0.4 | 1 | \$32.54 | \$ 38 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 123 | - | - | - | \$32.54 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 2 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 7 | - | - | - | \$32.54 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 79 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 39 | - | - | - | \$32.54 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | |
| All | Large | 3 | 0.00000 | 0.50% | 3 | 6 | 0.1 | 0.1 | 0.3 | \$32.54 | \$ 9 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 4 | 0.02 | 0.02 | 0.1 | \$32.54 | \$ 2 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | |
| All | Large | 8 | 0.00000 | 0.50% | 3 | 1 | 0.04 | 0.04 | 0.1 | \$32.54 | \$ 4 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | |
| Alloy Stainless Steel | Large | 31 | 0.00675 | 0.50% | 3 | 39 | 6 | 6 | 18 | \$32.54 | \$ 580 |
| | Small | 1 | 0.00032 | 0.50% | 3 | 12 | 0.1 | 0.1 | 0 | \$32.54 | \$ 9 |
| Carbon Steel | Large | 1 | 0.00016 | 0.50% | 3 | 116 | 0.4 | 0.4 | 1 | \$32.54 | \$ 41 |
| | Small | 1 | 0.00032 | 0.50% | 3 | 37 | 0.3 | 0.3 | 1 | \$32.54 | \$ 26 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | |
| Reshaping | Large | 0 | 0.00064 | 0.50% | 3 | 33 | 0.0001 | 0.0001 | 0.0003 | \$32.54 | \$ 0.010 |

Table 26

| VARIABLES | SIZE | LIMEMPAL | MEDEXAMADDERM | %ALABN | ADDMEDTIME | #PLANTS | RESPONDENTS | RESPONSES | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|---------------|--------|------------|---------|-------------|-----------|--------------|-------------|--------------|
| | Small | 0 | 0.00016 | 0.50% | 3 | 31 | 0.00003 | 0.00003 | 0.0001 | \$32.54 | \$ 0.002 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | |
| All | Large | 16 | 0.00000 | 0.50% | 3 | 152 | 12 | 12 | 37 | \$32.54 | \$ 1,188 |
| | Small | 4 | 0.00000 | 0.50% | 3 | 111 | 2 | 2 | 7 | \$32.54 | \$ 216 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 2 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 1 | - | - | - | \$32.54 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| | Small | 1 | 0.00000 | 0.50% | 3 | 5 | 0.02 | 0.02 | 0.1 | \$32.54 | \$ 2 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 212 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 1,600 | - | - | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 307 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 623 | - | - | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | |
| All | Large | 1 | 0.00000 | 0.50% | 3 | 8 | 0.05 | 0.05 | 0.1 | \$32.54 | \$ 5 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 24 | - | - | - | \$32.54 | \$ - |
| Fiber, Flat and Container Glass | Large | 12 | 0.00000 | 0.50% | 3 | 111 | 6 | 6 | 19 | \$32.54 | \$ 628 |
| | Small | 3 | 0.00000 | 0.50% | 3 | 6 | 0.1 | 0.1 | 0.2 | \$32.54 | \$ 8 |
| SECTOR 22. PRINTING | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 78 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 312 | - | - | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | |
| Catalyst Users | Large | 0 | 0.00000 | 0.50% | 3 | 193 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 6 | 0.00000 | 0.50% | 3 | 25 | 1 | 1 | 2 | \$32.54 | \$ 71 |
| | Small | 4 | 0.00000 | 0.50% | 3 | 5 | 0.1 | 0.1 | 0.3 | \$32.54 | \$ 8 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 5 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 0.50% | 3 | 143 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 76 | - | - | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0.00000 | 0.50% | 3 | 36 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 32 | - | - | - | \$32.54 | \$ - |
| Construction | Large | 1 | 0.00000 | 0.50% | 3 | 1,232 | 5 | 5 | 15 | \$32.54 | \$ 498 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 4,932 | 20 | 20 | 61 | \$32.54 | \$ 1,992 |
| Government | State | 1 | 0.00000 | 0.50% | 3 | 17 | 0.1 | 0.1 | 0 | \$32.54 | \$ 5 |

Table 26

| VARIABLES | SIZE | LIMEMPAL | MEDEXAMADDERM | %ALABN | ADDMEDTIME | #PLANTS | RESPONDENTS | RESPONSES | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------------|----------|---------------|--------|------------|---------------|-------------|------------|--------------|----------------|------------------|
| | Local | 1 | 0.00000 | 0.50% | 3 | 62 | 0.2 | 0.2 | 1 | \$32.54 | \$ 20 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 0.50% | 3 | 39 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 47 | - | - | - | \$32.54 | \$ - |
| Government | State | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| | Local | 0 | 0.00000 | 0.50% | 3 | 24 | - | - | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | |
| All | Large | 4 | 2.00000 | 0.50% | 3 | 18 | 1 | 1 | 2 | \$32.54 | \$ 50 |
| | Small | 0 | 0.00000 | 0.50% | 3 | 0 | - | - | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.00000 | 0.50% | 3 | 54 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 247 | - | - | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0.00000 | 0.50% | 3 | 16 | - | - | - | \$32.54 | \$ - |
| | Local Gov't | 0 | 0.00000 | 0.50% | 3 | 93 | - | - | - | \$32.54 | \$ - |
| Hazardous Waste Site Work | Large | 0 | 0.00000 | 0.50% | 3 | 43 | - | - | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 0.50% | 3 | 180 | - | - | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0.00000 | 0.50% | 3 | 1 | - | - | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Local Gov't | 0 | 0.00000 | 0.50% | 3 | 252 | - | - | - | \$32.54 | \$ - |
| | Large | 1 | 0.00000 | 0.50% | 3 | 47 | 0.3 | 0.3 | 1 | \$32.54 | \$ 26 |
| | Small | 1 | 0.00000 | 0.50% | 3 | 185 | 1 | 1 | 3 | \$32.54 | \$ 101 |
| Average/Total | | | | | 3 | 73,274 | 284 | 284 | 852 | \$32.54 | \$ 27,724 |

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)(iii)) 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."

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

Variables:

- 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
- %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

| | | 0 | | | | | | |
|--------------------------------------|-------|----------|---------------|--------|------------|---------|----------|--|
| Variables | Size | LIMEMPAL | MEDEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | Cost | |
| SECTOR 1. ELECTROPLATING | | | | | | | | |
| All | Large | 3 | 0.000000 | 0.50% | \$298.04 | 1,752 | \$7,834 | |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 3,297 | \$0 | |
| SECTOR 2A. WELDING | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 0.50% | \$298.04 | 8,171 | \$0 | |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 9,155 | \$0 | |
| Maritime | Large | 14 | 3.014286 | 0.50% | \$298.04 | 197 | \$5,013 | |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 112 | \$167 | |
| Construction | Large | 27 | 3.014286 | 0.50% | \$298.04 | 278 | \$12,502 | |
| | Small | 3 | 0.000000 | 0.50% | \$298.04 | 2,231 | \$10,020 | |
| Government | State | 0 | 0.000000 | 0.50% | \$298.04 | 26 | \$0 | |
| | Local | 0 | 0.000000 | 0.50% | \$298.04 | 819 | \$0 | |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 0.50% | \$298.04 | 10,955 | \$0 | |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 11,152 | \$0 | |
| Maritime | Large | 0 | 0.000000 | 0.50% | \$298.04 | 425 | \$0 | |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 241 | \$0 | |
| Construction | Large | 10 | 0.000000 | 0.50% | \$298.04 | 418 | \$6,258 | |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 3,158 | \$4,728 | |
| SECTOR 3. PAINTING | | | | | | | | |
| General Industry AEROSPACE | Large | 46 | 0.000000 | 0.50% | \$298.04 | 50 | \$3,388 | |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 62 | \$0 | |
| General Industry AUTOBODY | Large | 1 | 0.000000 | 0.50% | \$298.04 | 330 | \$452 | |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 1,454 | \$0 | |
| COIL COATING | Large | 2 | 0.000000 | 0.50% | \$298.04 | 101 | \$276 | |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 18 | \$25 | |

Table 27

| Variables | Size | LIMEPAL | MEEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------|---------|--------------|--------|------------|---------|----------|
| Maritime | Large | 2 | 0.000000 | 0.50% | \$298.04 | 274 | \$699 |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 474 | \$604 |
| Construction | Large | 2 | 0.000000 | 0.50% | \$298.04 | 789 | \$2,638 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 4,197 | \$0 |
| Governments | State | 0 | 0.000000 | 0.50% | \$298.04 | 17 | \$0 |
| | Local | 9 | 0.000000 | 0.50% | \$298.04 | 945 | \$12,949 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | |
| ALL | Large | 7 | 0.000000 | 0.50% | \$298.04 | 2 | \$19 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | |
| ALL | Large | 7 | 0.000000 | 0.50% | \$298.04 | 2 | \$17 |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 1 | \$1 |
| SECTOR 6. CCA PRODUCERS | | | | | | | |
| ALL | Large | 2 | 0.000000 | 0.50% | \$298.04 | 3 | \$8 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | |
| ALL | Large | 11 | 0.000000 | 0.50% | \$298.04 | 5 | \$76 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | |
| ALL | Large | 1 | 0.003380 | 0.50% | \$298.04 | 78 | \$117 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 123 | \$0 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 2 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 79 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 39 | \$0 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | |
| ALL | Large | 3 | 0.000000 | 0.50% | \$298.04 | 6 | \$26 |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 4 | \$6 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | |
| ALL | Large | 8 | 0.000000 | 0.50% | \$298.04 | 1 | \$12 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | |
| ALL | Large | 31 | 0.006751 | 0.50% | \$298.04 | 39 | \$1,771 |
| | Small | 1 | 0.000321 | 0.50% | \$298.04 | 12 | \$27 |
| Carbon Steel | Large | 1 | 0.000161 | 0.50% | \$298.04 | 116 | \$127 |
| | Small | 1 | 0.000321 | 0.50% | \$298.04 | 37 | \$80 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | |

Table 27

| Variables | Size | LIMEPAL | MEEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------|---------|--------------|--------|------------|---------|---------|
| ALL | Large | 0 | 0.000643 | 0.50% | \$298.04 | 33 | \$0 |
| | Small | 0 | 0.000161 | 0.50% | \$298.04 | 31 | \$0 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | |
| ALL | Large | 16 | 0.000000 | 0.50% | \$298.04 | 152 | \$3,628 |
| | Small | 4 | 0.000000 | 0.50% | \$298.04 | 111 | \$660 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 2 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 1 | \$0 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 5 | \$7 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 212 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 307 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | |
| ALL | Large | 1 | 0.000000 | 0.50% | \$298.04 | 8 | \$15 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 24 | \$0 |
| Fiber, Flat, Container Glass | Large | 12 | 0.000000 | 0.50% | \$298.04 | 111 | \$1,917 |
| | Small | 3 | 0.000000 | 0.50% | \$298.04 | 6 | \$25 |
| SECTOR 22. PRINTING | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 78 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 193 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| Chromium Catalyst Companies | Large | 6 | 0.000000 | 0.50% | \$298.04 | 25 | \$218 |
| | Small | 4 | 0.000000 | 0.50% | \$298.04 | 5 | \$25 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 5 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 0.50% | \$298.04 | 143 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 76 | \$0 |
| Maritime | Large | 0 | 0.000000 | 0.50% | \$298.04 | 36 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 32 | \$0 |
| | Large | 1 | 0.000000 | 0.50% | \$298.04 | 1,232 | \$1,520 |

Table 27

| Variables | Size | LIMEPAL | MEDEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------------|---------|---------------|--------|------------|---------------|-----------------|
| Construction | Small | 1 | 0.000000 | 0.50% | \$298.04 | 4,932 | \$6,083 |
| Government | State | 1 | 0.000000 | 0.50% | \$298.04 | 17 | \$17 |
| | Local | 1 | 0.000000 | 0.50% | \$298.04 | 62 | \$60 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | |
| ALL | Large | 0 | 0.000000 | 0.50% | \$298.04 | 39 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 47 | \$0 |
| Government | State | 1 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| | Local | 0 | 0.000000 | 0.50% | \$298.04 | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | |
| ALL | Large | 2 | 2.000000 | 0.50% | \$298.04 | 18 | \$105 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.000000 | 0.50% | \$298.04 | 54 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 247 | \$0 |
| | State Gov't | 0 | 0.000000 | 0.50% | \$298.04 | 16 | \$0 |
| | Local Gov't | 0 | 0.000000 | 0.50% | \$298.04 | 93 | \$0 |
| Hazardous Waste Site Work | Large | 0 | 0.000000 | 0.50% | \$298.04 | 43 | \$0 |
| | Small | 0 | 0.000000 | 0.50% | \$298.04 | 180 | \$0 |
| | State Gov't | 0 | 0.000000 | 0.50% | \$298.04 | 1 | \$0 |
| | Local Gov't | 0 | 0.000000 | 0.50% | \$298.04 | 252 | \$0 |
| Refractory Brick Restoration & Maintenance | Large | 1 | 0.000000 | 0.50% | \$298.04 | 47 | \$78 |
| | Small | 1 | 0.000000 | 0.50% | \$298.04 | 185 | \$0 |
| Total | | | | | | 73,274 | \$84,199 |

Table 28

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.

BURDEN HOURS = (LIMEMPAL + MEDEXAMADDERM)*TURNOVER*COMPFULLTIME * (1-%BASEMED) * #PLANTS
COST = BURDEN HOURS *NONSUPWAGE

Variables:

- 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** = 4 hours for an employee to receive a comprehensive medical examination
- NONSUPEWAGE** = Non-supervisory wage rate
- 1-%BASEMED** = Percentage of plants that are not providing annual medical examinations.
- #PLANTS** = Number of Plants

| VARIABLES | SIZE | LIMEMPAL | MEDEXAMADDERM | TURNOVER | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | COMPFULLTIME | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|---|-------|----------|---------------|----------|------------|---------|-------------|-----------|--------------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | |
| All | Large | 3 | 0.00000 | 43% | 0.00% | 1,752 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 0.00% | 3,297 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 43% | 95.00% | 8,171 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 9,155 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 14 | 3.01429 | 43% | 95.00% | 197 | 1,374 | 1,374 | 4 | 5,496 | \$32.54 | \$ 178,862 |
| | Small | 1 | 0.00000 | 43% | 100.00% | 112 | 48 | 48 | 4 | 193 | \$32.54 | \$ 6,272 |
| Construction | Large | 27 | 3.01429 | 43% | 95.00% | 278 | 3,427 | 3,427 | 4 | 13,708 | \$32.54 | \$ 446,082 |
| | Small | 3 | 0.00000 | 43% | 100.00% | 2,231 | 2,891 | 2,891 | 4 | 11,565 | \$32.54 | \$ 376,326 |
| Government | Local | 0 | 0.00000 | 43% | 95.00% | 26 | - | - | 4 | - | \$32.54 | \$ - |
| | State | 0 | 0.00000 | 43% | 100.00% | 819 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 43% | 95.00% | 10,955 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 11,152 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0.00000 | 43% | 95.00% | 425 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 241 | - | - | 4 | - | \$32.54 | \$ - |
| Construction | Large | 10 | 0.00000 | 43% | 95.00% | 418 | 1,716 | 1,716 | 4 | 6,862 | \$32.54 | \$ 223,309 |
| | Small | 1 | 0.00000 | 43% | 100.00% | 3,158 | 1,364 | 1,364 | 4 | 5,458 | \$32.54 | \$ 177,596 |
| SECTOR 3. PAINTING | | | | | | | | | | | | |
| Aerospace | Large | 46 | 0.00000 | 43% | 20.00% | 50 | 196 | 196 | 4 | 782 | \$32.54 | \$ 25,449 |
| | Small | 0 | 0.00000 | 43% | 50.00% | 62 | - | - | 4 | - | \$32.54 | \$ - |
| Autobody | Large | 1 | 0.00000 | 43% | 20.00% | 330 | 26 | 26 | 4 | 104 | \$32.54 | \$ 3,393 |
| | Small | 0 | 0.00000 | 43% | 50.00% | 1,454 | - | - | 4 | - | \$32.54 | \$ - |
| Coil Coating | Large | 2 | 0.00000 | 43% | 20.00% | 101 | 16 | 16 | 4 | 64 | \$32.54 | \$ 2,074 |
| | Small | 1 | 0.00000 | 43% | 50.00% | 18 | 4 | 4 | 4 | 14 | \$32.54 | \$ 471 |
| Maritime | Large | 2 | 0.00000 | 43% | 0.00% | 274 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 1 | 0.00000 | 43% | 50.00% | 474 | 87 | 87 | 4 | 349 | \$32.54 | \$ 11,351 |
| Construction | Large | 2 | 0.00000 | 43% | 0.00% | 789 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 0.00% | 4,197 | - | - | 4 | - | \$32.54 | \$ - |
| Government | Local | 0 | 0.00000 | 43% | 0.00% | 17 | - | - | 4 | - | \$32.54 | \$ - |
| | State | 9 | 0.00000 | 43% | 0.00% | 945 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | |
| | Large | 7 | 0.00000 | 43% | 50.00% | 2 | 3 | 3 | 4 | 11 | \$32.54 | \$ 365 |

Table 28

| VARIABLES | SIZE | LIMEMPAL | MEEXAMADDERV | TURNOVER | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | COMPLFULLTIME | BURDEN HOURS | NONSUPWAGE | ITEM 12 COST |
|--|-------|----------|--------------|----------|------------|---------|-------------|-----------|---------------|--------------|------------|--------------|
| All | Small | 0 | 0.00000 | 43% | 100.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | |
| All | Large | 7 | 0.00000 | 43% | 0.00% | 2 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 1 | 0.00000 | 43% | 0.00% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | |
| All | Large | 2 | 0.00000 | 43% | 0.00% | 3 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | |
| ALL | Large | 11 | 0.00000 | 43% | 0.00% | 5 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 0.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | |
| ALL | Large | 1 | 0.00338 | 43% | 0.00% | 78 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 0.00% | 123 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | 20.00% | 2 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 90.00% | 7 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 0.00% | 79 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 0.00% | 39 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | |
| All | Large | 3 | 0.00000 | 43% | 50.00% | 6 | 4 | 4 | 4 | 15 | \$32.54 | \$ 497 |
| | Small | 1 | 0.00000 | 43% | 70.00% | 4 | 1 | 1 | 4 | 5 | \$32.54 | \$ 155 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | |
| All | Large | 8 | 0.00000 | 43% | 0.00% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | |
| Alloy Stainless Steel | Large | 31 | 0.00675 | 43% | 50.00% | 39 | 256 | 256 | 4 | 1,022 | \$32.54 | \$ 33,260 |
| | Small | 1 | 0.00032 | 43% | 70.00% | 12 | 5 | 5 | 4 | 22 | \$32.54 | \$ 711 |
| Carbon Steel | Large | 1 | 0.00016 | 43% | 50.00% | 116 | 18 | 18 | 4 | 73 | \$32.54 | \$ 2,376 |
| | Small | 1 | 0.00032 | 43% | 70.00% | 37 | 16 | 16 | 4 | 64 | \$32.54 | \$ 2,092 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | |
| Reshaping | Large | 0 | 0.00064 | 43% | 50.00% | 33 | 0.005 | 0.005 | 4 | 0.02 | \$32.54 | \$ 1 |
| | Small | 0 | 0.00016 | 43% | 70.00% | 31 | 0.002 | 0.002 | 4 | 0.01 | \$32.54 | \$ 0.2 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | |
| All | Large | 16 | 0.00000 | 43% | 20.00% | 152 | 209 | 209 | 4 | 837 | \$32.54 | \$ 27,252 |
| | Small | 4 | 0.00000 | 43% | 90.00% | 111 | 171 | 171 | 4 | 685 | \$32.54 | \$ 22,297 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 0.00% | 2 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 0.00% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 0.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 1 | 0.00000 | 43% | 0.00% | 5 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 100.00% | 212 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 1,600 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | |
| | Large | 0 | 0.00000 | 43% | 20.00% | 307 | - | - | 4 | - | \$32.54 | \$ - |

Table 28

| VARIABLES | SIZE | LIMEMPAL | MEEXAMADDERY | TURNOVER | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | COMPLTIME | BURDEN HOURS | NONSUPWAGE | ITEM 12 COST |
|--|-------------|----------|--------------|----------|------------|---------|-------------|-----------|-----------|--------------|------------|--------------|
| All | Small | 0 | 0.00000 | 43% | 90.00% | 623 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | |
| All | Large | 1 | 0.00000 | 43% | 20.00% | 8 | 1 | 1 | 4 | 3 | \$32.54 | \$ 112 |
| | Small | 0 | 0.00000 | 43% | 90.00% | 24 | - | - | 4 | - | \$32.54 | \$ - |
| Fiber, Flat and Container Glass | Large | 12 | 0.00000 | 43% | 20.00% | 111 | 111 | 111 | 4 | 442 | \$32.54 | \$ 14,399 |
| | Small | 3 | 0.00000 | 43% | 90.00% | 6 | 6 | 6 | 4 | 26 | \$32.54 | \$ 837 |
| SECTOR 22. PRINTING | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 20.00% | 78 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 90.00% | 312 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | |
| Catalyst Users | Large | 0 | 0.00000 | 43% | 20.00% | 193 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 20.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| Chromium Catalyst Service Companies | Large | 6 | 0.00000 | 43% | 20.00% | 25 | 13 | 13 | 4 | 50 | \$32.54 | \$ 1,640 |
| | Small | 4 | 0.00000 | 43% | 20.00% | 5 | 1 | 1 | 4 | 6 | \$32.54 | \$ 187 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 20.00% | 5 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 90.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 43% | 75.00% | 143 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 76 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0.00000 | 43% | 75.00% | 36 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 100.00% | 32 | - | - | 4 | - | \$32.54 | \$ - |
| Construction | Large | 1 | 0.00000 | 43% | 50.00% | 1,232 | 219 | 219 | 4 | 877 | \$32.54 | \$ 28,540 |
| | Small | 1 | 0.00000 | 43% | 50.00% | 4,932 | 878 | 878 | 4 | 3,510 | \$32.54 | \$ 114,235 |
| Government | State | 1 | 0.00000 | 43% | 50.00% | 17 | 2 | 2 | 4 | 10 | \$32.54 | \$ 314 |
| | Local | 1 | 0.00000 | 43% | 50.00% | 62 | 9 | 9 | 4 | 35 | \$32.54 | \$ 1,135 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | |
| All | Large | 0 | 0.00000 | 43% | 50.00% | 39 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 70.00% | 47 | - | - | 4 | - | \$32.54 | \$ - |
| Government | State | 1 | 0.00000 | 43% | 50.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| | Local | 0 | 0.00000 | 43% | 70.00% | 24 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | |
| All | Large | 2 | 2.00000 | 43% | 50.00% | 18 | 15 | 15 | 4 | 60 | \$32.54 | \$ 1,963 |
| | Small | 0 | 0.00000 | 43% | 70.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.00000 | 43% | 50.00% | 54 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 50.00% | 247 | - | - | 4 | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0.00000 | 43% | 50.00% | 16 | - | - | 4 | - | \$32.54 | \$ - |
| | Local Gov't | 0 | 0.00000 | 43% | 50.00% | 93 | - | - | 4 | - | \$32.54 | \$ - |
| Hazardous Waste Site Work | Large | 0 | 0.00000 | 43% | 50.00% | 43 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.00000 | 43% | 50.00% | 180 | - | - | 4 | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0.00000 | 43% | 50.00% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| | Local Gov't | 0 | 0.00000 | 43% | 50.00% | 252 | - | - | 4 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Large | 1 | 0.00000 | 43% | 50.00% | 47 | 11 | 11 | 4 | 45 | \$32.54 | \$ 1,466 |

Table 28

| VARIABLES | SIZE | LIMEMPAL | MEEXAMADDERM | TURNOVER | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | COMPUFULLTIME | BURDEN HOURS | NONSUPWAGE | ITEM 12 COST |
|-----------|-------|----------|--------------|----------|------------|---------|-------------|-----------|---------------|--------------|------------|--------------|
| Total | Small | 1 | 0.00000 | 43% | 50.00% | 185 | 45 | 45 | 4 | 178 | \$32.54 | \$ 5,798 |
| | | | | | | 73,274 | 13,143 | 13,143 | 4 | 52,572 | \$32.54 | \$ 1,710,693 |

Table 29

Medical Examination After Initial Assignment (§§1910.1026(k)(2)(i), (k)(3)(i), and (k)(3)(ii);1915.1026(i)(2)(i), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(2)(i), (i)(3)(i), and (i)(3)(ii)) Contract Cost for a PLHCP to Conduct the Medical Examination After Initial Assignment
 This table calculates the cost for a contractor PLHCP to conduct medical examinations to employees newly assigned to operations that involve exposure at or above the action level.

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

Variables:

- * LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after implementation of engineering controls.
- * MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.
- *COMPFULLCOST = Cost for an employer to administer a comprehensive medical examination
- 1-%BASEMED = Percentage of establishments that do not have annual medical surveillance for their employees in the baseline.
- * #PLANTS = Number of Plants

| 0 | | | | | | | | |
|--------------------------------------|-------|----------|---------------|----------|--------------|------------|---------|-------------|
| Variables | Size | LIMEMPAL | MEDEXAMADDERM | TURNOVER | COMPFULLCOST | 1-%BASEMED | #PLANTS | Cost |
| SECTOR 1. ELECTROPLATING | | | | | | | | |
| ALL | Large | 3 | 0.00000 | 43% | \$560.32 | 0.00% | 1,752 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 3,297 | \$0 |
| SECTOR 2A. WELDING | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 43% | \$560.32 | 95.00% | 8,171 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 9,155 | \$0 |
| Maritime | Large | 14 | 3.01429 | 43% | \$560.32 | 95.00% | 197 | \$769,944 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 100.00% | 112 | \$26,999 |
| Construction | Large | 27 | 3.01429 | 43% | \$560.32 | 95.00% | 278 | \$1,920,237 |
| | Small | 3 | 0.00000 | 43% | \$560.32 | 100.00% | 2,231 | \$1,619,961 |
| GOVERNMENT | Local | 0 | 0.00000 | 43% | \$560.32 | 95.00% | 26 | \$0 |
| | State | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 819 | \$0 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 43% | \$560.32 | 95.00% | 10,955 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 11,152 | \$0 |
| Maritime | Large | 0 | 0.00000 | 43% | \$560.32 | 95.00% | 425 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 241 | \$0 |
| Construction | Large | 10 | 0.00000 | 43% | \$560.32 | 95.00% | 418 | \$961,274 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 100.00% | 3,158 | \$764,495 |
| SECTOR 3. PAINTING | | | | | | | | |
| AEROSPACE | Large | 46 | 0.00000 | 43% | \$560.32 | 20.00% | 50 | \$109,551 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 62 | \$0 |
| | Large | 1 | 0.00000 | 43% | \$560.32 | 20.00% | 330 | \$14,607 |

Table 29

| Variables | Size | LIMEPAL | MEDEXAMADDERM | TURNOVER | COMPFULLCOST | 1-%BASEMED | #PLANTS | Cost |
|--|-------|---------|---------------|----------|--------------|------------|---------|----------|
| Autobody | Small | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 1,454 | \$0 |
| Coil Coating | Large | 2 | 0.00000 | 43% | \$560.32 | 20.00% | 101 | \$8,926 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 18 | \$2,029 |
| Maritime | Large | 2 | 0.00000 | 43% | \$560.32 | 0.00% | 274 | \$0 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 474 | \$48,862 |
| Construction | Large | 2 | 0.00000 | 43% | \$560.32 | 0.00% | 789 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 4,197 | \$0 |
| Government | Local | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 17 | \$0 |
| | State | 9 | 0.00000 | 43% | \$560.32 | 0.00% | 945 | \$0 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | |
| ALL | Large | 7 | 0.00000 | 43% | \$560.32 | 50.00% | 2 | \$1,571 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 0 | \$0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | |
| ALL | Large | 7 | 0.00000 | 43% | \$560.32 | 0.00% | 2 | \$0 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 0.00% | 1 | \$0 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | |
| ALL | Large | 2 | 0.00000 | 43% | \$560.32 | 0.00% | 3 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 0 | \$0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | |
| ALL | Large | 11 | 0.00000 | 43% | \$560.32 | 0.00% | 5 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 0 | \$0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | |
| ALL | Large | 1 | 0.00338 | 43% | \$560.32 | 0.00% | 78 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 123 | \$0 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 20.00% | 2 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 90.00% | 7 | \$0 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 79 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 39 | \$0 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | |
| ALL | Large | 3 | 0.00000 | 43% | \$560.32 | 50.00% | 6 | \$2,139 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 70.00% | 4 | \$665 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | |
| ALL | Large | 8 | 0.00000 | 43% | \$560.32 | 0.00% | 1 | \$0 |

Table 29

| Variables | Size | LIMEPAL | MEDEXAMADDERM | TURNOVER | COMPFULLCOST | 1-%BASEMED | #PLANTS | Cost |
|--|-------|---------|---------------|----------|--------------|------------|---------|-----------|
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 0 | \$0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | |
| Alloy Stainless Steel | Large | 31 | 0.00675 | 43% | \$560.32 | 50.00% | 39 | \$143,174 |
| | Small | 1 | 0.00032 | 43% | \$560.32 | 70.00% | 12 | \$3,062 |
| Carbon Steel | Large | 1 | 0.00016 | 43% | \$560.32 | 50.00% | 116 | \$10,227 |
| | Small | 1 | 0.00032 | 43% | \$560.32 | 70.00% | 37 | \$9,005 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | |
| Reshaping | Large | 0 | 0.00064 | 43% | \$560.32 | 50.00% | 33 | \$3 |
| | Small | 0 | 0.00016 | 43% | \$560.32 | 70.00% | 31 | \$1 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | |
| ALL | Large | 16 | 0.00000 | 43% | \$560.32 | 20.00% | 152 | \$117,309 |
| | Small | 4 | 0.00000 | 43% | \$560.32 | 90.00% | 111 | \$95,980 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 2 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 1 | \$0 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 0.00% | 0 | \$0 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 0.00% | 5 | \$0 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 212 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 1,600 | \$0 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 20.00% | 307 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 90.00% | 623 | \$0 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | |
| ALL | Large | 1 | 0.00000 | 43% | \$560.32 | 20.00% | 8 | \$481 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 90.00% | 24 | \$0 |
| Fiber, Flat and Container Glass | Large | 12 | 0.00000 | 43% | \$560.32 | 20.00% | 111 | \$61,985 |
| | Small | 3 | 0.00000 | 43% | \$560.32 | 90.00% | 6 | \$3,604 |
| SECTOR 22. PRINTING | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 20.00% | 78 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 90.00% | 312 | \$0 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | |
| Catalyst Users | Large | 0 | 0.00000 | 43% | \$560.32 | 20.00% | 193 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 20.00% | 0 | \$0 |
| Chromium Catalyst Service Companies | Large | 6 | 0.00000 | 43% | \$560.32 | 20.00% | 25 | \$7,058 |

Table 29

| Variables | Size | LIMEIMPAL | MEDEXAMADDERM | TURNOVER | COMPFULLCOST | 1-%BASEMED | #PLANTS | Cost |
|--|-------------|-----------|---------------|----------|--------------|------------|---------------|--------------------|
| Companies | Small | 4 | 0.00000 | 43% | \$560.32 | 20.00% | 5 | \$807 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 20.00% | 5 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 90.00% | 0 | \$0 |
| SECTOR 26. WOODWORKING | | | | | | | | |
| General Industry | Large | 0 | 0.00000 | 43% | \$560.32 | 75.00% | 143 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 76 | \$0 |
| Maritime | Large | 0 | 0.00000 | 43% | \$560.32 | 75.00% | 36 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 100.00% | 32 | \$0 |
| Construction | Large | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 1,232 | \$122,854 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 4,932 | \$491,747 |
| Government | State | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 17 | \$1,351 |
| | Local | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 62 | \$4,884 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | |
| ALL | Large | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 39 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 70.00% | 47 | \$0 |
| Government | State | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 0 | \$0 |
| | Local | 0 | 0.00000 | 43% | \$560.32 | 70.00% | 24 | \$0 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | |
| ALL | Large | 2 | 2.00000 | 43% | \$560.32 | 50.00% | 18 | \$8,450 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 70.00% | 0 | \$0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 54 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 247 | \$0 |
| | State Gov't | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 16 | \$0 |
| | Local Gov't | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 93 | \$0 |
| Hazardous Waste Site Work | Large | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 43 | \$0 |
| | Small | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 180 | \$0 |
| | State Gov't | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 1 | \$0 |
| | Local Gov't | 0 | 0.00000 | 43% | \$560.32 | 50.00% | 252 | \$0 |
| Refractory Brick Restoration | Large | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 47 | \$6,311 |
| | Small | 1 | 0.00000 | 43% | \$560.32 | 50.00% | 185 | \$24,957 |
| TOTAL | | | | | | | 73,274 | \$7,364,507 |

Table 30

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)))*#PLANTS
COST = BURDEN HOURS x NONSUPEWAGE

Variables:

- 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 | SIZE | LIMEMPAL | MEDEXAMADDERM | TURNOVER | TURNOVER / 2 | COMPARTTIME | %BASEMED | COMPFULLTIME | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | HOUR PER RESPONSE (FOR ITEM 12 TABLE) | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------|----------|---------------|----------|--------------|-------------|----------|--------------|------------|---------|-------------|-----------|---------------------------------------|--------------|-------------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | | | | | | | | |
| All | Large | 3 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 1,752 | 1,130 | 1,130 | 3 | 3,391 | \$32.54 | \$ 110,343 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 3,297 | - | - | 3 | - | \$32.54 | \$ - |
| SECTOR 2A. WELDING | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 8,171 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 9,155 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 14 | 3.014286 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 197 | 723 | 723 | 4 | 2,857 | \$32.54 | \$ 92,961 |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 112 | 24 | 24 | 4 | 96 | \$32.54 | \$ 3,136 |
| Construction | Large | 27 | 3.014286 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 278 | 1,804 | 1,804 | 4 | 7,125 | \$32.54 | \$ 231,845 |
| | Small | 3 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 2,231 | 1,446 | 1,446 | 4 | 5,782 | \$32.54 | \$ 188,163 |
| Government | State | 0 | 0.000000 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 26 | - | - | 4 | - | \$32.54 | \$ - |
| | Local | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 819 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 10,955 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 11,152 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0.000000 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 425 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 241 | - | - | 4 | - | \$32.54 | \$ - |
| Construction | Large | 10 | 0.000000 | 43% | 22% | 3 | 5.00% | 4 | 95.00% | 418 | 903 | 903 | 4 | 3,567 | \$32.54 | \$ 116,062 |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 3,158 | 682 | 682 | 4 | 2,729 | \$32.54 | \$ 88,798 |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | | | |
| Aerospace | Large | 46 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 50 | 489 | 489 | 3 | 1,564 | \$32.54 | \$ 50,899 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 62 | - | - | 4 | - | \$32.54 | \$ - |
| Auto Body | Large | 1 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 330 | 65 | 65 | 3 | 209 | \$32.54 | \$ 6,786 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 1,454 | - | - | 4 | - | \$32.54 | \$ - |
| Coil Coating | Large | 2 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 101 | 40 | 40 | 3 | 127 | \$32.54 | \$ 4,147 |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 18 | 4 | 4 | 4 | 13 | \$32.54 | \$ 412 |
| Maritime | Large | 2 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 274 | 101 | 101 | 3 | 303 | \$32.54 | \$ 9,848 |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 474 | 87 | 87 | 4 | 305 | \$32.54 | \$ 9,932 |
| Construction | Large | 2 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 789 | 381 | 381 | 3 | 1,142 | \$32.54 | \$ 37,162 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 4,197 | - | - | 3 | - | \$32.54 | \$ - |
| Government | State | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 17 | - | - | 3 | - | \$32.54 | \$ - |
| | Local | 9 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 945 | 1,868 | 1,868 | 3 | 5,605 | \$32.54 | \$ 182,383 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | | | | | | | |
| All | Large | 7 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 2 | 3 | 3 | 4 | 10 | \$32.54 | \$ 319 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | | | | | | | |
| All | Large | 7 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 2 | 3 | 3 | 3 | 8 | \$32.54 | \$ 245 |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 1 | 0.2 | 0.2 | 3 | 1 | \$32.54 | \$ 17 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | | | | | | | |
| All | Large | 2 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 3 | 1 | 1 | 3 | 3 | \$32.54 | \$ 109 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | | | | | | | |

Table 30

| VARIABLES | SIZE | LIVEMPAL | MECHANMADDERM | TURNOVER | TURNOVER / 2 | COMPARTTIME | %BASEMED | COMPFULLTIME | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | HOUR PER RESPONSE (FOR ITEM 12 TABLE) | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST | |
|--|-------|----------|---------------|----------|--------------|-------------|----------|--------------|------------|---------|-------------|-----------|--|--------------|-------------|--------------|--|
| All | Large | 11 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 5 | 11 | 11 | 3 | 33 | \$32.54 | \$ 1,075 | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 0 | - | - | 3 | - | \$32.54 | \$ - | |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 1 | 0.003380 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 78 | 17 | 17 | 3 | 51 | \$32.54 | \$ 1,647 | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 123 | - | - | 3 | - | \$32.54 | \$ - | |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 2 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 7 | - | - | 4 | - | \$32.54 | \$ - | |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 79 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 39 | - | - | 3 | - | \$32.54 | \$ - | |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 3 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 6 | 4 | 4 | 4 | 13 | \$32.54 | \$ 435 | |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 4 | 1 | 1 | 4 | 3 | \$32.54 | \$ 102 | |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 8 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 1 | 2 | 2 | 3 | 5 | \$32.54 | \$ 174 | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 0 | - | - | 4 | - | \$32.54 | \$ - | |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | | | | | | | | |
| General Industry | Large | 31 | 0.006751 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 39 | 256 | 256 | 4 | 894 | \$32.54 | \$ 29,103 | |
| | Small | 1 | 0.000321 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 12 | 4 | 4 | 4 | 14 | \$32.54 | \$ 470 | |
| Carbon Steel | Large | 1 | 0.000161 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 116 | 18 | 18 | 4 | 64 | \$32.54 | \$ 2,079 | |
| | Small | 1 | 0.000321 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 37 | 11 | 11 | 4 | 42 | \$32.54 | \$ 1,382 | |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | | | | | | | | |
| Reshaping | Large | 0 | 0.000643 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 33 | 0.005 | 0.005 | 4 | 0.02 | \$32.54 | \$ 1 | |
| | Small | 0 | 0.000161 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 31 | 0.001 | 0.001 | 4 | 0.004 | \$32.54 | \$ 0.1 | |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | | | | | | | | |
| All | Large | 16 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 152 | 523 | 523 | 3 | 1,675 | \$32.54 | \$ 54,503 | |
| | Small | 4 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 111 | 95 | 95 | 4 | 371 | \$32.54 | \$ 12,077 | |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 2 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 1 | - | - | 3 | - | \$32.54 | \$ - | |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 0 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 100.00% | 4 | 0.00% | 5 | 1 | 1 | 3 | 3 | \$32.54 | \$ 98 | |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 212 | - | - | 4 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 1,600 | - | - | 4 | - | \$32.54 | \$ - | |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 307 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 623 | - | - | 4 | - | \$32.54 | \$ - | |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | | | | | | | | |
| General Industry | Large | 1 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 8 | 2 | 2 | 3 | 7 | \$32.54 | \$ 223 | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 24 | - | - | 4 | - | \$32.54 | \$ - | |
| Fiber, Flat and Container Glass | Large | 12 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 111 | 277 | 277 | 3 | 885 | \$32.54 | \$ 28,799 | |
| | Small | 3 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 6 | 4 | 4 | 4 | 14 | \$32.54 | \$ 453 | |
| SECTOR 22. PRINTING | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 78 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 312 | - | - | 4 | - | \$32.54 | \$ - | |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 193 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 0 | - | - | 3 | - | \$32.54 | \$ - | |
| Chromium Service Companies | Large | 6 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 25 | 31 | 31 | 3 | 101 | \$32.54 | \$ 3,279 | |
| | Small | 4 | 0.000000 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 5 | 4 | 4 | 4 | 13 | \$32.54 | \$ 433 | |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 80.00% | 4 | 20.00% | 5 | - | - | 3 | - | \$32.54 | \$ - | |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 10.00% | 4 | 90.00% | 0 | - | - | 4 | - | \$32.54 | \$ - | |
| SECTOR 26. WOODWORKING | | | | | | | | | | | | | | | | | |

Table 30

| VARIABLES | SIZE | L1MEMPAL | MECHANMADDERM | TURNOVER | TURNOVER / 2 | COMPARTIME | %BASEMED | COMPFULLTIME | 1-%BASEMED | #PLANTS | RESPONDENTS | RESPONSES | HOUR PER RESPONSE (FOR ITEM 12 TABLE) | BURDEN HOURS | NONSUPEWAGE | ITEM 12 COST |
|--|-------------|----------|---------------|----------|--------------|------------|----------|--------------|---------------|---------------|---------------|-----------|--|----------------|---------------------|--------------|
| General Industry | Large | 0 | 0.000000 | 43% | 22% | 3 | 25.00% | 4 | 75.00% | 143 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 76 | - | - | 4 | - | \$32.54 | \$ - |
| Maritime | Large | 0 | 0.000000 | 43% | 22% | 3 | 25.00% | 4 | 75.00% | 36 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 0.00% | 4 | 100.00% | 32 | - | - | 4 | - | \$32.54 | \$ - |
| Construction | Large | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 1,232 | 219 | 219 | 4 | 767 | \$32.54 | \$ 24,972 |
| | Small | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 4,932 | 878 | 878 | 4 | 3,072 | \$32.54 | \$ 99,956 |
| Government | State | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 17 | 2 | 2 | 4 | 8 | \$32.54 | \$ 275 |
| | Local | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 62 | 9 | 9 | 4 | 31 | \$32.54 | \$ 993 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | | | | | | | |
| All | Large | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 39 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 47 | - | - | 4 | - | \$32.54 | \$ - |
| Government | State | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| | Local | 0 | 0.000000 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 24 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | | | | | | | |
| All | Large | 2 | 2.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 18 | 15 | 15 | 4 | 53 | \$32.54 | \$ 1,718 |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 30.00% | 4 | 70.00% | 0 | - | - | 4 | - | \$32.54 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 54 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 247 | - | - | 4 | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 16 | - | - | 4 | - | \$32.54 | \$ - |
| | Local Gov't | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 93 | - | - | 4 | - | \$32.54 | \$ - |
| Hazardous Waste Site Work | Large | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 43 | - | - | 4 | - | \$32.54 | \$ - |
| | Small | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 180 | - | - | 4 | - | \$32.54 | \$ - |
| | State Gov't | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 1 | - | - | 4 | - | \$32.54 | \$ - |
| Refractory Brick Restoration | Local Gov't | 0 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 252 | - | - | 4 | - | \$32.54 | \$ - |
| | Large | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 47 | 11 | 11 | 4 | 39 | \$32.54 | \$ 1,283 |
| Small | 1 | 0.000000 | 43% | 22% | 3 | 50.00% | 4 | 50.00% | 185 | 45 | 45 | 4 | 156 | \$32.54 | \$ 5,073 | |
| Average/Total | | | | | | | 4 | | 73,274 | 12,192 | 12,192 | 4 | 48,768 | \$32.54 | \$ 1,586,911 | |

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.

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

Variables:

- 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

| | | 0 | | | | | | | | |
|--------------------------------------|-------|---------------------------------|---------------|----------|--------------|-------------|----------|--------------|--------------|---------|
| Variables | Size | LIMEMPAL | MEDEXAMADDERM | TURNOVER | TURNOVER / 2 | COMPARTCOST | %BASEMED | COMPFULLCOST | 1 - %BASEMED | #PLANTS |
| | | SECTOR 1. ELECTROPLATING | | | | | | | | |
| All | Large | 3 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 1,752 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 3,297 |
| SECTOR 2A. WELDING | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 8,171 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 9,155 |
| Maritime | Large | 14 | 3.014286 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 197 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 112 |
| Construction | Large | 27 | 3.014286 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 278 |
| | Small | 3 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 2,231 |
| Government | State | 0 | 0.000000 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 26 |
| | Local | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 819 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 10,955 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 11,152 |
| Maritime | Large | 0 | 0.000000 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 425 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 241 |
| Construction | Large | 10 | 0.000000 | 43% | 22% | \$280 | 5.00% | \$559 | 95.00% | 418 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 3,158 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| AEROSPACE | Large | 46 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 50 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 62 |
| | Large | 1 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 330 |

Table 31

| Variables | Size | LIMEMPAL | MEDEXAMADDERM | TURNOVER | TURNOVER / 2 | COMPARTCOST | %BASEMED | COMPFULLCOST | 1 - %BASEMED | #PLANTS |
|--|-------|----------|---------------|----------|--------------|-------------|----------|--------------|--------------|---------|
| Auto Body | Small | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 1,454 |
| Coil Coating | Large | 2 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 101 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 18 |
| Maritime | Large | 2 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 274 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 474 |
| Construction | Large | 2 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 789 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 4,197 |
| Government | State | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 17 |
| | Local | 9 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 945 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | | |
| ALL | Large | 7 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 2 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 0 |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | | |
| ALL | Large | 7 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 2 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 1 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | | |
| ALL | Large | 2 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 3 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 0 |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | | |
| ALL | Large | 11 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 5 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 0 |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | | |
| ALL | Large | 1 | 0.003380 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 78 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 123 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 2 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 7 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 79 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 39 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | | |
| ALL | Large | 3 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 6 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 4 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | | |
| ALL | Large | 8 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 1 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 0 |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | | |
| General Industry | Large | 31 | 0.006751 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 39 |
| | Small | 1 | 0.000321 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 12 |

Table 31

| Variables | Size | LIMEMPAL | MEDEXAMADDERM | TURNOVER | TURNOVER / 2 | COMPARTCOST | %BASEMED | COMPFULLCOST | 1 - %BASEMED | #PLANTS |
|--|-------|----------|---------------|----------|--------------|-------------|----------|--------------|--------------|---------|
| Carbon Steel | Large | 1 | 0.000161 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 116 |
| | Small | 1 | 0.000321 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 37 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | | |
| Reshaping | Large | 0 | 0.000643 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 33 |
| | Small | 0 | 0.000161 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 31 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | | |
| ALL | Large | 16 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 152 |
| | Small | 4 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 111 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 2 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 1 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 0 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 100.00% | \$559 | 0.00% | 5 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 212 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 1,600 |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 307 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 623 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | | |
| General Industry | Large | 1 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 8 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 24 |
| Fiber, Flat and Container Glass | Large | 12 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 111 |
| | Small | 3 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 6 |
| SECTOR 22. PRINTING | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 78 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 312 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 193 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 0 |
| Chromium Service Companies | Large | 6 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 25 |
| | Small | 4 | 0.000000 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 5 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 80.00% | \$559 | 20.00% | 5 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 10.00% | \$559 | 90.00% | 0 |
| SECTOR 26. WOODWORKING | | | | | | | | | | |
| General Industry | Large | 0 | 0.000000 | 43% | 22% | \$280 | 25.00% | \$559 | 75.00% | 143 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 76 |
| | Large | 0 | 0.000000 | 43% | 22% | \$280 | 25.00% | \$559 | 75.00% | 36 |

Table 31

| Variables | Size | LIMEMPAL | MEDEXAMADDERM | TURNOVER | TURNOVER / 2 | COMPARTCOST | %BASEMED | COMPFULLCOST | 1 - %BASEMED | #PLANTS |
|--|-------------|----------|---------------|----------|--------------|-------------|----------|--------------|--------------|---------------|
| Maritime | Small | 0 | 0.000000 | 43% | 22% | \$280 | 0.00% | \$559 | 100.00% | 32 |
| Construction | Large | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 1,232 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 4,932 |
| Government | State | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 17 |
| | Local | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 62 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | | |
| ALL | Large | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 39 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 47 |
| Government | State | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 0 |
| | Local | 0 | 0.000000 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 24 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | | |
| ALL | Large | 2 | 2.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 18 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 30.00% | \$559 | 70.00% | 0 |
| SECTOR 31. CONSTRUCTION | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 54 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 247 |
| | State Gov't | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 16 |
| | Local Gov't | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 93 |
| Hazardous Waste Site Work | Large | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 43 |
| | Small | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 180 |
| | State Gov't | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 1 |
| | Local Gov't | 0 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 252 |
| Refractory Brick Restoration | Large | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 47 |
| | Small | 1 | 0.000000 | 43% | 22% | \$280 | 50.00% | \$559 | 50.00% | 185 |
| Total | | | | | | | | | | 73,274 |

Table 32

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.

Variables:

BURDEN HOURS = POTEXEMP * MEDRECORD * PLANTS

COST = BURDEN HOURS * CLWAGE

POTEXEMP = 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 (5 mins)

CLWAGE = Clerical wage. \$/hr.

#PLANTS = Number of plants represented by the model

| VARIABLES | SIZE | POTEXEMP | #PLANTS | RESPONDENTS | RESPONSES | MEDRECORD | BURDEN HOURS | CLWAGE | ITEM 12 COST |
|--------------------------------------|-------|----------|---------|-------------|-----------|-----------|--------------|---------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | |
| All | Large | 5 | 1,752 | 8,762 | 8,762 | 0.08 | 730 | \$26.65 | \$ 19,457 |
| | Small | 1 | 3,297 | 3,297 | 3,297 | 0.08 | 275 | \$26.65 | \$ 7,321 |
| SECTOR 2A. WELDING | | | | | | | | | |
| General Industry | Large | 2 | 8,171 | 16,419 | 16,419 | 0.08 | 1,368 | \$26.65 | \$ 36,461 |
| | Small | 0 | 9,155 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Maritime | Large | 19 | 197 | 3,760 | 3,760 | 0.08 | 313 | \$26.65 | \$ 8,348 |
| | Small | 1 | 112 | 112 | 112 | 0.08 | 9 | \$26.65 | \$ 249 |
| Construction | Large | 51 | 278 | 14,262 | 14,262 | 0.08 | 1,188 | \$26.65 | \$ 31,670 |
| | Small | 5 | 2,231 | 11,206 | 11,206 | 0.08 | 934 | \$26.65 | \$ 24,884 |
| Government | State | 2 | 26 | 52 | 52 | 0.08 | 4 | \$26.65 | \$ 117 |
| | Local | 0 | 819 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | |
| General Industry | Large | 1 | 10,955 | 11,007 | 11,007 | 0.08 | 917 | \$26.65 | \$ 24,442 |
| | Small | 0 | 11,152 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Maritime | Large | 0 | 425 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 1 | 241 | 242 | 242 | 0.08 | 20 | \$26.65 | \$ 538 |
| Construction | Large | 19 | 418 | 7,979 | 7,979 | 0.08 | 665 | \$26.65 | \$ 17,719 |
| | Small | 2 | 3,158 | 6,346 | 6,346 | 0.08 | 529 | \$26.65 | \$ 14,092 |
| SECTOR 3. PAINTING | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| Aerospace | Large | 47 | 50 | 2,319 | 2,319 | 0.08 | 193 | \$26.65 | \$ 5,149 |
| | Small | 1 | 62 | 57 | 57 | 0.08 | 5 | \$26.65 | \$ 127 |
| Auto Body | Large | 12 | 330 | 3,941 | 3,941 | 0.08 | 328 | \$26.65 | \$ 8,751 |
| | Small | 1 | 1,454 | 1,335 | 1,335 | 0.08 | 111 | \$26.65 | \$ 2,964 |
| Coil Coating | Large | 2 | 101 | 185 | 185 | 0.08 | 15 | \$26.65 | \$ 411 |
| | Small | 1 | 18 | 17 | 17 | 0.08 | 1 | \$26.65 | \$ 37 |
| Maritime | Large | 3 | 274 | 704 | 704 | 0.08 | 59 | \$26.65 | \$ 1,563 |
| | Small | 1 | 474 | 406 | 406 | 0.08 | 34 | \$26.65 | \$ 901 |
| | Large | 2 | 789 | 1,771 | 1,771 | 0.08 | 148 | \$26.65 | \$ 3,932 |

Table 32

| VARIABLES | SIZE | POTEXEMP | #PLANTS | RESPONDENTS | RESPONSES | MEDRECORD | BURDEN HOURS | CLWAGE | ITEM 12 COST |
|--|-------|----------|---------|-------------|-----------|-----------|--------------|---------|--------------|
| Construction | Small | 1 | 4,197 | 3,138 | 3,138 | 0.08 | 261 | \$26.65 | \$ 6,967 |
| Government | State | 9 | 17 | 157 | 157 | 0.08 | 13 | \$26.65 | \$ 349 |
| | Local | 1 | 945 | 621 | 621 | 0.08 | 52 | \$26.65 | \$ 1,378 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | |
| All | Large | 7 | 2 | 13 | 13 | 0.08 | 1 | \$26.65 | \$ 29 |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | |
| All | Large | 20 | 2 | 33 | 33 | 0.08 | 3 | \$26.65 | \$ 74 |
| | Small | 2 | 1 | 2 | 2 | 0.08 | 0.1 | \$26.65 | \$ 4 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | |
| All | Large | 3 | 3 | 8 | 8 | 0.08 | 1 | \$26.65 | \$ 17 |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | |
| All | Large | 24 | 5 | 112 | 112 | 0.08 | 9 | \$26.65 | \$ 248 |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | |
| All | Large | 5 | 78 | 391 | 391 | 0.08 | 33 | \$26.65 | \$ 868 |
| | Small | 2 | 123 | 246 | 246 | 0.08 | 20 | \$26.65 | \$ 546 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | |
| All | Large | 0 | 2 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 7 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | |
| All | Large | 0 | 79 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 39 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | |
| All | Large | 3 | 6 | 18 | 18 | 0.08 | 1 | \$26.65 | \$ 39 |
| | Small | 1 | 4 | 4 | 4 | 0.08 | 0.3 | \$26.65 | \$ 9 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | |
| All | Large | 14 | 1 | 15 | 15 | 0.08 | 1 | \$26.65 | \$ 32 |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | |
| All | Large | 42 | 39 | 1,613 | 1,613 | 0.08 | 134 | \$26.65 | \$ 3,581 |
| | Small | 1 | 12 | 18 | 18 | 0.08 | 2 | \$26.65 | \$ 40 |
| Carbon Steel | Large | 10 | 116 | 1,188 | 1,188 | 0.08 | 99 | \$26.65 | \$ 2,639 |
| | Small | 1 | 37 | 53 | 53 | 0.08 | 4 | \$26.65 | \$ 119 |
| SECTOR 14.B FORGING INDUSTRY | | | | | | | | | |
| All | Large | 3 | 33 | 100 | 100 | 0.08 | 8 | \$26.65 | \$ 221 |
| | Small | 0 | 31 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | |
| All | Large | 23 | 152 | 3,499 | 3,499 | 0.08 | 292 | \$26.65 | \$ 7,771 |
| | Small | 5 | 111 | 553 | 553 | 0.08 | 46 | \$26.65 | \$ 1,229 |

Table 32

| VARIABLES | SIZE | POTEXEMP | #PLANTS | RESPONDENTS | RESPONSES | MEDRECORD | BURDEN HOURS | CLWAGE | ITEM 12 COST |
|--|-------|----------|---------|-------------|-----------|-----------|--------------|---------|--------------|
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | |
| All | Large | 0 | 2 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 1 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | |
| All | Large | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 3 | 5 | 14 | 14 | 0.08 | 1 | \$26.65 | \$ 31 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | |
| All | Large | 0 | 212 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 1,600 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | |
| All | Large | 0 | 307 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 623 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | |
| All | Large | 1 | 8 | 10 | 10 | 0.08 | 1 | \$26.65 | \$ 22 |
| | Small | 0 | 24 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Fiber, Flat, and Container Glass | Large | 14 | 111 | 1,572 | 1,572 | 0.08 | 131 | \$26.65 | \$ 3,491 |
| | Small | 3 | 6 | 17 | 17 | 0.08 | 1 | \$26.65 | \$ 37 |
| SECTOR 22. PRINTING | | | | | | | | | |
| All | Large | 0 | 78 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 312 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | |
| All | Large | 1 | 193 | 227 | 227 | 0.08 | 19 | \$26.65 | \$ 505 |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Chromium Catalyst Companies | Large | 12 | 25 | 293 | 293 | 0.08 | 24 | \$26.65 | \$ 651 |
| | Small | 6 | 5 | 28 | 28 | 0.08 | 2 | \$26.65 | \$ 62 |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | |
| All | Large | 0 | 5 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | |
| General Industry | Large | 1 | 143 | 109 | 109 | 0.08 | 9 | \$26.65 | \$ 243 |
| | Small | 0 | 76 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Maritime | Large | 0 | 36 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 32 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Construction | Large | 2 | 1,232 | 3,059 | 3,059 | 0.08 | 255 | \$26.65 | \$ 6,794 |
| | Small | 1 | 4,932 | 4,082 | 4,082 | 0.08 | 340 | \$26.65 | \$ 9,064 |
| Government | State | 1 | 17 | 11 | 11 | 0.08 | 1 | \$26.65 | \$ 25 |
| | Local | 1 | 62 | 41 | 41 | 0.08 | 3 | \$26.65 | \$ 90 |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | |
| All | Large | 0 | 39 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 47 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | State | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |

Table 32

| VARIABLES | SIZE | POTEXEMP | #PLANTS | RESPONDENTS | RESPONSES | MEDRECORD | BURDEN HOURS | CLWAGE | ITEM 12 COST |
|--|-------------|----------|---------------|----------------|----------------|-------------|--------------|----------------|------------------|
| Government | Local | 0 | 24 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | |
| All | Large | 2 | 18 | 35 | 35 | 0.08 | 3 | \$26.65 | \$ 78 |
| | Small | 0 | 0 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 54 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 247 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | State Gov't | 0 | 16 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Local Gov't | 0 | 93 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Hazardous Waste Site Work | Large | 0 | 43 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Small | 0 | 180 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | State Gov't | 0 | 1 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| | Local Gov't | 0 | 252 | 0 | - | 0.08 | - | \$26.65 | \$ - |
| Refractory Brick Restoration | Large | 11 | 47 | 524 | 524 | 0.08 | 44 | \$26.65 | \$ 1,163 |
| | Small | 1 | 185 | 207 | 207 | 0.08 | 17 | \$26.65 | \$ 460 |
| Average/Total | | | 73,274 | 116,188 | 116,188 | 0.08 | 9,682 | \$26.65 | \$258,025 |

Table 33

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.

BURDEN HOURS = RECTIME * EMPEXP * #PLANTS

COST = BURDEN HOURS x CLWAGE

Variables:

RECTIME = Time,5 mins per record for exposed workers

EMPEXP = Exposed employees to chromium or employees exposed dermally

#PLANTS = Number of Plants

CLWAGE = Clerical wage Rate

| VARIABLES | SIZE | EMPEXP | #PLANTS | RESPONDENTS | RESPONSES | RECTIME | HOURS | CLWAGE | ITEM 12 COST |
|--|-------|--------|---------|-------------|-----------|---------|-------|---------|--------------|
| SECTOR 1. ELECTROPLATING | | | | | | | | | |
| ALL | Large | 13 | 1,752 | 22,781 | 22,781 | 0.083 | 1,898 | \$26.65 | \$ 50,588 |
| | Small | 3 | 3,297 | 9,891 | 9,891 | 0.083 | 824 | \$26.65 | \$ 21,964 |
| SECTOR 2A. WELDING | | | | | | | | | |
| ALL | Large | 3 | 8,672 | 26,016 | 26,016 | 0.083 | 2,168 | \$26.65 | \$ 57,772 |
| | Small | 3 | 12,316 | 36,949 | 36,949 | 0.083 | 3,079 | \$26.65 | \$ 82,049 |
| SECTOR 2B. MILD STEEL WELDING | | | | | | | | | |
| | Large | 4 | 11,798 | 47,192 | 47,192 | 0.083 | 3,933 | \$26.65 | \$ 104,794 |
| | Small | 1 | 14,551 | 14,551 | 14,551 | 0.083 | 1,213 | \$26.65 | \$ 32,312 |
| SECTOR 3. PAINTING | | | | | | | | | |
| ALL | Large | 45 | 1,562 | 70,280 | 70,280 | 0.083 | 5,857 | \$26.65 | \$ 156,063 |
| | Small | 2 | 7,152 | 14,303 | 14,303 | 0.083 | 1,192 | \$26.65 | \$ 31,762 |
| SECTOR 4. PRODUCERS OF CHROMATES | | | | | | | | | |
| ALL | Large | 70 | 2 | 130 | 130 | 0.083 | 11 | \$26.65 | \$ 289 |
| | Small | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 5. CHROMATE PIGMENT PROCEDURES | | | | | | | | | |
| ALL | Large | 20 | 2 | 33 | 33 | 0.083 | 3 | \$26.65 | \$ 74 |
| | Small | 2 | 1 | 2 | 2 | 0.083 | 0.1 | \$26.65 | \$ 4 |
| SECTOR 6. CCA PRODUCERS | | | | | | | | | |
| ALL | Large | 8 | 3 | 21 | 21 | 0.083 | 2 | \$26.65 | \$ 46 |
| | Small | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 7. CHROMIUM CATALYST PRODUCERS | | | | | | | | | |
| ALL | Large | 59 | 5 | 275 | 275 | 0.083 | 23 | \$26.65 | \$ 610 |
| | Small | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 8. PAINT AND COATING PRODUCERS | | | | | | | | | |
| ALL | Large | 17 | 78 | 1,330 | 1,330 | 0.083 | 111 | \$26.65 | \$ 2,953 |

Table 33

| VARIABLES | SIZE | EMPEXP | #PLANTS | RESPONDENTS | RESPONSES | RECTIME | HOURS | CLWAGE | ITEM 12 COST |
|--|-------|--------|---------|-------------|-----------|---------|-------|---------|--------------|
| | Small | 7 | 123 | 860 | 860 | 0.083 | 72 | \$26.65 | \$ 1,911 |
| SECTOR 9. PRINTING INK PRODUCERS | | | | | | | | | |
| ALL | Large | 15 | 2 | 33 | 33 | 0.083 | 3 | \$26.65 | \$ 74 |
| | Small | 15 | 7 | 111 | 111 | 0.083 | 9 | \$26.65 | \$ 246 |
| SECTOR 10. PLASTIC COLORANT PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 5 | 79 | 396 | 396 | 0.083 | 33 | \$26.65 | \$ 879 |
| | Small | 1 | 39 | 39 | 39 | 0.083 | 3 | \$26.65 | \$ 86 |
| SECTOR 11. PLATING MIXTURE PRODUCERS | | | | | | | | | |
| ALL | Large | 17 | 6 | 101 | 101 | 0.083 | 8 | \$26.65 | \$ 223 |
| | Small | 4 | 4 | 16 | 16 | 0.083 | 1 | \$26.65 | \$ 35 |
| SECTOR 13. CHROMIUM METAL PRODUCERS | | | | | | | | | |
| ALL | Large | 49 | 1 | 51 | 51 | 0.083 | 4 | \$26.65 | \$ 113 |
| | Small | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 14. IRON AND STEEL MILLS | | | | | | | | | |
| ALL | Large | 48 | 2,207 | 105,944 | 105,944 | 0.083 | 8,829 | \$26.65 | \$ 235,260 |
| | Small | 3 | 25 | 75 | 75 | 0.083 | 6 | \$26.65 | \$ 165 |
| SECTOR 15. IRON AND STEEL FOUNDRIES | | | | | | | | | |
| ALL | Large | 98 | 152 | 14,911 | 14,911 | 0.083 | 1,243 | \$26.65 | \$ 33,111 |
| | Small | 98 | 111 | 10,844 | 10,844 | 0.083 | 904 | \$26.65 | \$ 24,081 |
| SECTOR 17. CHROMIUM DYE PRODUCERS | | | | | | | | | |
| ALL | Large | 27 | 2 | 67 | 67 | 0.083 | 6 | \$26.65 | \$ 150 |
| | Small | 6 | 1 | 5 | 5 | 0.083 | 0.4 | \$26.65 | \$ 11 |
| SECTOR 18. CHROMIUM SULFATE PRODUCERS | | | | | | | | | |
| ALL | Large | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| | Small | 2 | 5 | 9 | 9 | 0.083 | 1 | \$26.65 | \$ 21 |
| SECTOR 19. CHEMICAL DISTRIBUTORS | | | | | | | | | |
| ALL | Large | 0 | 212 | - | - | 0.083 | - | \$26.65 | \$ - |
| | Small | 0 | 1,600 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 20. TEXTILE DYEING | | | | | | | | | |
| ALL | Large | 52 | 307 | 15,962 | 15,962 | 0.083 | 1,330 | \$26.65 | \$ 35,445 |
| | Small | 2 | 623 | 1,246 | 1,246 | 0.083 | 104 | \$26.65 | \$ 2,767 |
| SECTOR 21. COLORED GLASS PRODUCERS | | | | | | | | | |
| ALL | Large | 6 | 119 | 712 | 712 | 0.083 | 59 | \$26.65 | \$ 1,580 |
| | Small | 1 | 31 | 31 | 31 | 0.083 | 3 | \$26.65 | \$ 69 |
| SECTOR 22. PRINTING | | | | | | | | | |
| ALL | Large | 37 | 78 | 2,883 | 2,883 | 0.083 | 240 | \$26.65 | \$ 6,402 |

Table 33

| VARIABLES | SIZE | EMPEXP | #PLANTS | RESPONDENTS | RESPONSES | RECTIME | HOURS | CLWAGE | ITEM 12 COST |
|--|-------------|--------|---------------|----------------|----------------|--------------|---------------|----------------|-------------------|
| | Small | 2 | 312 | 623 | 623 | 0.083 | 52 | \$26.65 | \$ 1,384 |
| SECTOR 24. CHROMIUM CATALYST USERS | | | | | | | | | |
| ALL | Large | 35 | 193 | 6,822 | 6,822 | 0.083 | 568 | \$26.65 | \$ 15,148 |
| | Small | 18 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| Catalyst Service Companies | Large | 1 | 25 | 29 | 29 | 0.083 | 2 | \$26.65 | \$ 65 |
| | Small | 0 | 5 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 25. REFRACTORY BRICK PRODUCERS | | | | | | | | | |
| ALL | Large | 10 | 5 | 52 | 52 | 0.083 | 4 | \$26.65 | \$ 115 |
| | Small | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 26. WOODWORKING | | | | | | | | | |
| ALL | Large | 0 | 1,428 | - | - | 0.083 | - | \$26.65 | \$ - |
| | Small | 0 | 5,102 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 27. SOLID WASTER INCINERATION | | | | | | | | | |
| ALL | Large | 0 | 39 | - | - | 0.083 | - | \$26.65 | \$ - |
| | Small | 1 | 71 | 71 | 71 | 0.083 | 6 | \$26.65 | \$ 158 |
| SECTOR 30. SUPERALLOY PRODUCERS AND USERS | | | | | | | | | |
| ALL | Large | 38 | 18 | 666 | 666 | 0.083 | 56 | \$26.65 | \$ 1,480 |
| | Small | 0 | 0 | - | - | 0.083 | - | \$26.65 | \$ - |
| SECTOR 31. CONSTRUCTION | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 27 | 54 | 1,443 | 1,443 | 0.083 | 120 | \$26.65 | \$ 3,205 |
| | Small | 1 | 247 | 276 | 276 | 0.083 | 23 | \$26.65 | \$ 612 |
| | State Gov't | 1 | 16 | 17 | 17 | 0.083 | 1 | \$26.65 | \$ 39 |
| | Local Gov't | 1 | 93 | 104 | 104 | 0.083 | 9 | \$26.65 | \$ 230 |
| Hazardous Waste Site Work | Large | 16 | 43 | 665 | 665 | 0.083 | 55 | \$26.65 | \$ 1,478 |
| | Small | 3 | 180 | 603 | 603 | 0.083 | 50 | \$26.65 | \$ 1,339 |
| | State Gov't | 2 | 1 | 2 | 2 | 0.083 | 0.2 | \$26.65 | \$ 4 |
| | Local Gov't | 3 | 252 | 846 | 846 | 0.083 | 71 | \$26.65 | \$ 1,879 |
| Refractory Brick Restoration & Maintenance | Large | 16 | 47 | 733 | 733 | 0.083 | 61 | \$26.65 | \$ 1,629 |
| | Small | 1 | 185 | 207 | 207 | 0.083 | 17 | \$26.65 | \$ 460 |
| Average/Total | | | 75,237 | 411,209 | 411,209 | 0.083 | 34,267 | \$26.65 | \$ 913,216 |