| Table 2 - Annual Respondent Burden and Cost for SI Engine Certification | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours and Cost per Application | | | | | | | | | | | Total Hours and Cost | | |
| Information Collection Activity | Engineer $79.76/hr | Manager $116.03/hr | Legal $163.42/hr | Test Cell Operator $48.66/hr | Transport $37.93/hr | Clerical $35.78/hr | Respondents hr/yr | Labor Cost/yr | Capital Startup Cost | O&M Cost, Annualized (1) | Applications/ Respondent (2) | Number of Respondents | Total hr/yr | Total Cost/yr |
| Review of regulations and guidance documents | 18.0 | 9.0 | 10.0 | 4.0 | 0.0 | 1.0 | 42 | $4,344.57 | $0.00 | $15.00 | 1.0 | 354 | 14,868 | 1,543,288 |
| Developing eng families groups | 15.0 | 3.0 | 1.0 | 0.0 | 0.0 | 1.0 | 20 | $1,743.69 | $0.00 | $0.00 | 1.0 | 354 | 7,080 | 617,266 |
| Gathering durability data | 12.0 | 5.0 | 0.0 | 38.0 | 2.0 | 3.0 | 60 | $3,569.55 | $0.00 | $0.00 | 2.9 | 187 | 32,538 | 1,935,767 |
| Testing/Gathering emission data on test engines | 30.0 | 14.0 | 0.0 | 22.0 | 2.0 | 14.0 | 82 | $5,664.52 | $0.00 | $0.00 | 2.9 | 187 | 44,469 | 3,071,869 |
| Laboratory maintenance(1) | 200.0 | 150.0 | 0.0 | 400.0 | 200.0 | 0.0 | 950 | $60,406.50 | $0.00 | $73,300.00 | 1.0 | 42 | 39,900 | 5,615,673 |
| Cert, Durability & Evap Testing (annualized)(1) | | | | | | | | | | | | | | |
| Small SI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | $0.00 | $0.00 | $5,666.67 | 2.4 | 86 | 0 | 1,169,600 |
| Large SI | | | | | | | 0 | $0.00 | | $11,836.67 | 1.4 | 5 | 0 | 82,857 |
| Rec Veh Test | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | $0.00 | $0.00 | $7,333.33 | 1.7 | 34 | 0 | 423,867 |
| Marine SI Test | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | $0.00 | $0.00 | $15,000.00 | 1.7 | 7 | 0 | 178,500 |
| Components (per manufacturer) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | $0.00 | $0.00 | $333.33 | 2.2 | 133 | 0 | 97,533 |
| Analyze data to determine compliance | 6.0 | 4.0 | 1.0 | 0.0 | 0.0 | 1.0 | 12 | $1,141.88 | $0.00 | $0.00 | 2.9 | 187 | 6,508 | 619,242 |
| Preparing and submitting certification application | 2.0 | 0.5 | 1.0 | 0.0 | 0.0 | 1.0 | 5 | $416.74 | $0.00 | $6.00 | 2.9 | 187 | 2,440 | 229,249 |
| Preparing and submitting "carry over" applications | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 2.0 | 4 | $209.34 | $0.00 | $3.00 | 3.9 | 354 | 4,832 | 293,150 |
| Paying Certification Fee | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 3 | $115.79 | $0.00 | $1.00 | 5.3 | 354 | 5,629 | 219,112 |
| Certification Fee (3) | | | | | | | | | | | | | | |
| Components | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | $0.00 | $0.00 | $241.00 | 1.7 | 171 | 0 | 70,059 |
| All Other SI Engines | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | $0.00 | $0.00 | $563.00 | 5.8 | 249 | 0 | 813,085 |
| Post Bond | 1.0 | 1.0 | 0.5 | 0.0 | 0.0 | 1.0 | 4 | $313.28 | $0.00 | $20.00 | 5.4 | 76 | 1,432 | 136,312 |
| Apply for Bond Waivers | 2.0 | 0.5 | 0.5 | 0.0 | 0.0 | 1.0 | 4 | $335.03 | $0.00 | $2.00 | 1.0 | 20 | 80 | 6,741 |
| Preparing and supporting running changes | 3.0 | 2.0 | 1.0 | 3.0 | 0.0 | 2.0 | 11 | $852.30 | $0.00 | $6.00 | 3.9 | 354 | 15,187 | 1,184,969 |
| Store, file and maintain records | 3.0 | 1.0 | 1.0 | 0.0 | 0.0 | 7.0 | 12 | $769.19 | $0.00 | $6.00 | 1.0 | 354 | 4,248 | 274,417 |
| Preparing and Submitting Annual Production Report | 12.0 | 2.0 | 1.0 | 0.0 | 0.0 | 2.0 | 17 | $1,424.16 | 0 | $3 | 1.0 | 354 | 6,018 | 505,215 |
| | | | | | | | | | | | | | | |
| Total per respondent | 305.5 | 193 | 17 | 467 | 204 | 36.5 | 1,224.5 | $ 81,307 | 0 | varies | varies | N/A | N/A | N/A |
| Total for the industry | N/A | N/A | N/A | N/A | N/A | N/A | N/A | $ 13,139,397 | 0 | $ 5,948,371 | varies | 354 | 185,227.4 | $ 19,087,769 |

(1) See section 6(b)ii for details.

(2) See section 6(d) for details.

(3) See section 6(b)(ii) for details.

| Table 3 - Annual Respondent Burden and Cost - Average, Trading and Banking Program | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours and Cost per Application | | | | | | | | Total Hours and Cost | | |
| Information Collection Activity | Engineer $79.76/hr | Manager $116.03/hr | Legal $163.42/hr | Clerical $35.78/hr | Respondents hr/yr | Labor Cost/yr | Capital Startup Cost | O&M Cost (1) | Number of Respondents | Total hr/yr | Total Cost/yr |
| Precertification activities/Submit info in cert application | 60 | 2 | 2 | 0 | 64 | $699 | $0 | $25 | 50 | 3,200 | $36,183 |
| Gather Information regarding point of first retail sale (2) | 160 | 3 | 1 | 24 | 188 | $1,610 | $0 | $100 | 50 | 9,400 | $85,500 |
| Develop and submit end-of-year-report | 35 | 2 | 2 | 4 | 43 | $817 | $0 | $25 | 50 | 2,150 | $42,089 |
| Develop and submit final reports | 20 | 1 | 1 | 4 | 26 | $522 | $0 | $14 | 50 | 1,300 | $26,817 |
| Recordkeeping (2) | 24 | | 4 | | 28 | $757 | $0 | $14 | 50 | 1,400 | $38,572 |
| Total | 299 | 8 | 10 | 32 | 349 | $4,086 | $0 | $178 | N/A | N/A | N/A |
| Total for the industry | N/A | N/A | N/A | N/A | N/A | $220,260 | $0 | $8,900 | 50 | 17,450 | $229,160 |

(1) See section 6(b)ii for details.

(2) Numbers reflect one activity done four times a year.

| Table 4 - Annual Respondent Burden and Cost - Production Line Testing Program | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours and Cost per Engine Family | | | | | | | | | | | Total Hours and Cost | | | |
| Information Collection Activity | Engineer $79.76/hr | Manager $116.03/hr | Legal $163.42/hr | Clerical $35.78/hr | Test Cell Operator $48.66/hr | Assembler $33.79/hr | Transport $37.93/hr | Respondents hr/yr | Labor Cost/yr | Capital Startup Cost | O&M Cost(1) | Frequency (2) | Number of Respondents | Total hr/yr | Total Cost/yr |
| Review of instructions and regulations | 45 | 5 | 8 | 0 | 0 | 0 | 0 | 58 | $5,476.71 | $0.00 | $0.00 | 1 | 179 | 10,382 | $980,331.09 |
| Training | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 9 | $686.74 | $0.00 | $40.00 | 1 | 179 | 1,611 | $130,086.46 |
| Projecting testing needs and planning test schedules | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 13 | $1,029.17 | $0.00 | $20.00 | 1 | 179 | 2,327 | $187,801.43 |
| Engine selection and transport | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | $439.42 | $0.00 | $20.00 | 1 | 179 | 1,253 | $82,236.18 |
| Engine inspection | 1 | 0 | 0 | 0 | 6 | 0 | 0 | 7 | $371.72 | $0.00 | $0.00 | 4 | 179 | 5,012 | $266,151.52 |
| Testing (In-house) | 8 | 0 | 0 | 0 | 12 | 2 | 0 | 22 | $1,289.58 | $0.00 | $300.00 | 10 | 37 | 8,140 | $588,144.60 |
| Data entry and analysis | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | $673.86 | $0.00 | $30.00 | 4 | 37 | 1,332 | $104,171.28 |
| Other tasks (test equipment calibration, engine repair, etc.) | 4 | 0 | 0 | 0 | 60 | 0 | 0 | 64 | $3,238.64 | $0.00 | $100.00 | 1 | 179 | 11,456 | $597,616.56 |
| Testing (Contract Out) | | | | | | | | | | | | | | | |
| Small SI | | | | | | | | | | | $5,666.67 | 11 | 21 | 0 | $1,360,000.00 |
| Large SI | | | | | | | | | | | $11,836.67 | 6 | 7 | 0 | $497,140.00 |
| Marine SI | | | | | | | | | | | $15,000.00 | 3 | 12 | 0 | $585,000.00 |
| Setting up contract | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 7 | $673.95 | $0.00 | $21.00 | 1 | 142 | 994 | $98,682.90 |
| Preparing and submitting report | 8 | 1 | 1 | 2 | 0 | 0 | 0 | 12 | $989.09 | $0.00 | $5.00 | 4 | 179 | 8,592 | $711,768.44 |
| Store, file and maintain records | 2 | 0 | 0 | 3 | 0 | 1 | 0 | 6 | $300.65 | $0.00 | $2.00 | 4 | 179 | 4,296 | $216,697.40 |
| Total per manufacturer | 101 | 8 | 11 | 9 | 80 | 4 | 1 | 214 | $15,169.53 | $0.00 | varies | varies | N/A | N/A | N/A |
| Total for the industry | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ### | $0.00 | $2,597,794.00 | N/A | 179 | 55,395 | 6,405,828 |

(1) Includes diskettes, photocopying, postage expenses, phone calls, and testing costs, annualized.  See section 6(b)(iii) for details.

(2) 1 = one time tasks; 4 = tasks carried out quarterly; other # = number of engine families.  Refer to Section 6(d) for further detail.

Average Burden= total burden / # of respondents

| Table 5 - In-use Estimated Annual Respondent Burden and Cost | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours and cost per application | | | | | | | | | | | | Total hours and cost | | |
| Information Collection Activity | Engineer $79.76/hr | Manager $116.03/hr | Legal $163.42/hr | Clerical $35.78/hr | Test Cell Operator $48.66/hr | Assembler $33.79/hr | Transport $37.93/hr | Respondent hr/yr | Labor Cost/yr | Capital Startup Cost | O&M Cost(1) | Frequency (2) | Number of Respondents | Total hr/yr | Total Cost/yr |
| Review of instructions and regulations | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 9 | $838 | $0 | $0 | 1 | 40 | 360 | $33,511 |
| Training | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | $208 | $0 | $120 | 1 | 40 | 120 | $13,127 |
| Plan activities | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | $1,276 | $0 | $20 | 1 | 40 | 640 | $51,846 |
| Procure engines | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 5 | $347 | $0 | $100 | 1 | 40 | 200 | $17,884 |
| Ship Engines | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | $231 | $0 | $200 | 1 | 40 | 200 | $17,259 |
| Engine Maintenance | 1 | 0 | 0 | 0 | 3 | 33 | 0 | 37 | $1,341 | $0 | $210 | 1 | 40 | 1,480 | $62,032 |
| Testing In-house | 8 | 0 | 0 | 0 | 38 | 1 | 1 | 48 | $2,559 | $0 | $900 | 1 | 35 | 1,680 | $121,061 |
| Setting up contract Testing (Contracting out) | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 7 | $674 | $0 | $25 | 1 | 9 | 63 | $6,291 |
| Small SI | | | | | | | | | | | $5,667 | 16 | 8 | 0 | $725,333 |
| Large SI | | | | | | | | | | | $11,837 | 2 | 4 | 0 | $94,693 |
| Marine SI | | | | | | | | | | | $15,000 | 2 | 5 | 0 | $150,000 |
| Data entry and analysis | 22 | 0 | 0 | 5 | 2 | 0 | 0 | 29 | $2,031 | $0 | $10 | 1 | 40 | 1,160 | $81,638 |
| Preparing and submitting report | 18 | 1 | 1 | 1 | 0 | 0 | 0 | 21 | $1,751 | $0 | $15 | 1 | 40 | 840 | $70,636 |
| Store, file and maintain records | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | $674 | $0 | $5 | 1 | 40 | 360 | $27,154 |
| Total per manufacturer | 95 | 4 | 4 | 11 | 82 | 35 | 6 | 237 | $14,489 | $0 | varies | varies | N/A | N/A | N/A |
| Total for the industry | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | $443,515 | $0 | $1,028,952 | N/A | 40 | 7,103 | $1,472,467 |

(1) Includes diskettes, photocopying, postage expenses, phone calls, and testing costs, annualized. See section 6(b)(iii) for details.

(2) 1 = one time tasks; 4 = tasks carried out quarterly; other # = number of tests performed/eng manufacturer/model year. Refer to Section 6(d) for further detail.

Average Burden= total burden/# of respondents

Average Burden In-use programs= (total burden Phase 1 + Phase 2) / (# of respondents Phase1 + Phase2)

| Table 6 - Annual Respondent Burden and Cost - Selective Enforcement Auditing (SEA) Program | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hours and Cost per Application** | | | | | | | | | | | | **Total Hours and Cost** | | |
| Information Collection Activity | Engineer $79.76/hr | Manager $116.03/hr | Legal $163.42/hr | Clerical $35.78/hr | Test Cell Operator $48.66/hr | Assembler $33.79/hr | Transport $37.93/hr | Respondent hr/yr | Labor Cost/yr | Capital Startup Cost | O&M Cost(1) | Frequency (2) | Number of Respondents (3) | Total hr/yr | Total Cost/yr |
| Provide Pre-audit information | 20 | 10 | 2 | 5 | 0 | 0 | 0 | 37 | $3,261 | $0 | $0 | 1 | 2 | 74 | $6,522 |
| Review of instructions and regulations | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 9 | $838 | $0 | $0 | 1 | 2 | 18 | $1,676 |
| Training | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 5 | $404 | $0 | $32 | 1 | 2 | 10 | $872 |
| Plan activities | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | $1,276 | $0 | $32 | 1 | 2 | 32 | $2,616 |
| Testing In-house | 8 | 0 | 0 | 0 | 38 | 1 | 1 | 48 | $2,559 | $0 | $200 | 1 | 1 | 48 | $2,759 |
| Testing Contract Out | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | $0 | $20,000 | 1 | 1 | 0 | $20,000 |
| Data entry and analysis | 22 | 0 | 0 | 5 | 2 | 0 | 0 | 29 | $2,031 | $0 | $1 | 1 | 2 | 58 | $4,064 |
| Preparing and submitting report | 18 | 1 | 1 | 1 | 0 | 0 | 0 | 21 | $1,751 | $0 | $3 | 1 | 2 | 42 | $3,508 |
| Store, file and maintain records | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | $674 | $0 | $1 | 1 | 2 | 18 | $1,350 |
| **Total per manufacturer** | **95** | **5** | **2** | **8** | **79** | **2** | **2** | **174** | **$12,758** | **$0** | **varies** | **varies** | **N/A** | **N/A** | **N/A** |
| **Total for the industry** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **$23,029** | **$0** | **$20,338** | **N/A** | **2** | **300** | **$43,367** |

(1) Includes diskettes, photocopying, postage expenses, phone calls, and testing costs, annualized.  See section 6(b)(iii) for details.

(2) 1 = one time tasks; other # = number of tests performed/eng manufacturer/model year.    Refer to Section 6(d) for further detail.

(3) EPA estimates it will audit 7 manufacturers over the next 3 years.  It might, however, request pre-audit information from several manufacturers each year.

Average burden = total burden / # of respondents

| Table 8 - Annual Agency Burden and Cost | | | | | | |
|---|---|---|---|---|---|---|
| | Hours and Labor Cost | | | | | |
| Employee | Level | Rate | Rate Increase by 1.6 | Number of Employees | Full time hours | % of Time |
| | | | | | | |
| Engineer | GS-13/6 | $49.72 | $79.55 | 5 | 2080 | 100% |
| Contracts | GS-13/6 | $49.72 | $79.55 | 3 | 2080 | 30% |
| Attorney | GS-13/7 | $51.14 | $81.82 | 3 | 2080 | 20% |
| Managers | GS-15/1 | $59.24 | $94.78 | 1.5 | 2080 | 100% |
| SES-1 | SES - 1 | $96.01 | $153.62 | 3 | 2080 | 30% |
| IT Support | GS-13/6 | $49.72 | $79.55 | 5 | 2080 | 30% |
| SEE Support | | | | | | |
| Contract Support | | | | | | |
| **Subtotal** | | | | **20.5** | **N/A** | **N/A** |

| O&M Costs | |
|---|---|
| Testing | |
| Other | |
| SEE Support | |
| Contract Support - Compliance | |
| Contract Support - Certification | |

| Total  hr/yr | Total Labor cost/yr |
|---:|---:|
| | |
| 10400 | $827,320 |
| 1872 | $148,918 |
| 1248 | $102,111 |
| 3120 | $295,714 |
| 1872 | $287,577 |
| 3120 | $248,196 |
| | $177,066 |
| | $83,000 |
| **21,632** | **$       2,169,901** |

| | |
|---:|---:|
| | $200,000 |
| | $20,000 |
| | $177,066 |
| | $83,000 |
| | $200,000 |
| **Subtotal:** | **$       680,066** |

| | |
|---:|---:|
| **TOTAL:** | **$       2,849,967** |

Table 7
Respondent Burden Tally

| Program | Number of Respond. | Number of Activities | Total Hours Per Year | Total Labor Cost Per Year | Total Annual Capital Costs | Total Annual O&M Costs |
|---|---|---|---|---|---|---|
| Certification | 354 | 15 | 185,227 | 13,139,397 | - | 5,948,371 |
| AB&T | 50 | 5 | 17,450 | 220,260 | - | 8,900 |
| PLT | 179 | 11 | 55,395 | 3,808,034 | - | 2,597,794 |
| In-use | 40 | 12 | 7,103 | 443,515 | - | 1,028,952 |
| SEAs | 2 | 8 | 300 | 23,029 | - | 20,338 |
| Totals: | 354 | 51 | 265,475 | 17,634,235 | - | 9,604,355 |

Hours per respondent: 750

| Total Costs |
|---:|
| 19,087,769 |
| 229,160 |
| 6,405,828 |
| 1,472,467 |
| 43,367 |
| 27,238,590 |