

## **APPENDIX A – APPLICABLE REGULATIONS**

Code of Federal Regulations (CFR) Part 51, Subpart S (Inspection/Maintenance Program Requirements, 51.350 et seq.)

[http://www.access.gpo.gov/nara/cfr/waisidx\\_05/40cfr51\\_05.html](http://www.access.gpo.gov/nara/cfr/waisidx_05/40cfr51_05.html)

Code of Federal Regulations (CFR) Part 85 (Control of Air Pollution from Mobile Source)

[http://www.access.gpo.gov/nara/cfr/waisidx\\_06/40cfr85\\_06.html](http://www.access.gpo.gov/nara/cfr/waisidx_06/40cfr85_06.html)

New Jersey Administrative Code, Title 7, Chapter 27, Air Pollution Control

7:27-14, Control and Prohibition of Air Pollution from Diesel-Powered Motor Vehicles

<http://www.state.nj.us/dep/aqm/sub14v2001-10-01.pdf>

7:27-15 Control and Prohibition of Air Pollution from Gasoline-Fueled Motor Vehicles

<http://www.state.nj.us/dep/aqm/Sub15v2002-12-26.pdf>

7:27B-4 Air Test Method 4: Testing Procedures for Diesel-Powered Motor Vehicles

<http://www.nj.gov/dep/aqm/SubB4v2006-12-04.pdf>

7:27B-5 Air Test Method 5: Testing Procedures for Gasoline-Fueled Motor Vehicles

<http://www.state.nj.us/dep/aqm/SubB5v2002-12-26.pdf>

New Jersey Administrative Code, Title 13, Chapter 20, Enforcement Service

<http://michie.lexisnexis.com/newjersey/lpext.dll?f=templates&fn=main-h.htm&cp=uanjadmin>

Note: The State is currently drafting revisions to State rules to implement several changes identified in this RFP. The contractor shall meet the requirements of the revised rules.

# APPENDIX B – CURRENT CENTRAL INSPECTION FACILITIES (CIFs) AND SPECIALTY INSPECTION FACILITIES (SIFs)

| Station Name                  | Open Late Night | Appointment Required | No. of Lanes | Year Built | Address                                              | Wait Time Gate/Tickets | Exempt from Wait Time Penalties |
|-------------------------------|-----------------|----------------------|--------------|------------|------------------------------------------------------|------------------------|---------------------------------|
| Central Inspection Facilities |                 |                      |              |            |                                                      |                        |                                 |
| BAKERS BASIN                  | Tue             | No                   | 6            | 1957       | 3200 Brunswick Pike<br>Lawrenceville NJ 08648        | Yes                    | No                              |
| BRIDGETON                     | Thur            | Yes                  | 1            | 1949       | 83 Cornwell Drive<br>Bridgeton NJ 08302              | No                     | Yes                             |
| CAPE MAY                      | Tue             | Yes                  | 1            | 1938       | 6 West Shellbay Ave<br>Cape May Court House NJ 08210 | No                     | Yes                             |
| CHERRY HILL                   | Tue             | No                   | 6            | 1957       | 617 Hampton Rd<br>Cherry Hill NJ 08002               | Yes                    | No                              |
| DELANCO                       | Mon             | No                   | 3            | 1964       | 400 Creek Rd<br>Delanco NJ 08075                     | Yes                    | No                              |
| DEPTFORD                      | Wed             | No                   | 4            | 1972       | 725 Tanyard Rd<br>Deptford NJ 08096                  | Yes                    | No                              |
| EATONTOWN                     | Tue             | No                   | 6            | 1958       | 109 Route 36<br>Eatontown NJ 07724                   | Yes                    | No                              |
| FLEMINGTON                    | Thur            | No                   | 3            | 1978       | 181 Route 31-202<br>Ringoes NJ 08551                 | Yes                    | No                              |
| FREEHOLD                      | Mon             | No                   | 6            | 2000       | 801 Okerson Rd<br>Freehold NJ 07728                  | Yes                    | No                              |
| KILMER                        | Thur            | No                   | 6            | 1975       | 33 Kilmer Rd<br>Edison NJ 08817                      | Yes                    | No                              |
| LAKEWOOD                      | Wed             | No                   | 6            | 2000       | 1145 Route 70<br>Lakewood NJ 08701                   | Yes                    | No                              |
| LODI                          | Thur            | No                   | 5            | 1959       | 8 Mill Street<br>Lodi NJ 07644                       | Yes                    | No                              |
| MANAHAWKIN                    | Mon             | No                   | 3            | 1972       | 220 Recovery Rd                                      | Yes                    | No                              |

| Station Name                        | Open Late Night | Appointment Required | No. of Lanes | Year Built | Address                                                        | Wait Time Gate/Tickets | Exempt from Wait Time Penalties |
|-------------------------------------|-----------------|----------------------|--------------|------------|----------------------------------------------------------------|------------------------|---------------------------------|
|                                     |                 |                      |              |            | Manahawkin NJ 08050                                            |                        |                                 |
| MAYS LANDING                        | Wed             | No                   | 4            | 1991       | 1477 19th Street<br>Mays Landing NJ 08330                      | Yes                    | No                              |
| MILLVILLE                           | Tue             | No                   | 2            | 1938       | 1406 Wheaton Ave<br>Millville NJ 08332                         | No                     | Yes                             |
| MONTCLAIR<br>(to be closed in 2008) | Thur            | Yes                  | 2            | 1938       | 16 Label St<br>Montclair NJ 07042                              | No                     | Yes                             |
| NEWARK                              | Wed             | No                   | 5            | 1975       | 228 Frelinghuysen Ave<br>Newark NJ 07114                       | Yes                    | No                              |
| NEWTON                              | Thur            | No                   | 2            | 1938       | 90 Moran St<br>Newton NJ 07860                                 | Yes                    | No                              |
| PARAMUS                             | Tue             | No                   | 5            | 1967       | 20 West Century Rd<br>Paramus NJ 07652                         | Yes                    | No                              |
| PLAINFIELD                          | Thur            | No                   | 3            | 1949       | 1600 South 2nd St<br>Plainfield NJ 07063                       | No                     | Yes                             |
| RAHWAY                              | Mon             | No                   | 6            | 1957       | 1140 Woodbridge Rd & East Hazel<br>Wood Ave<br>Rahway NJ 07065 | Yes                    | No                              |
| RANDOLPH                            | Tue             | No                   | 6            | 1987       | 160 Canfield Ave<br>Randolph NJ 07869                          | Yes                    | No                              |
| SOUTH BRUNSWICK                     | Tue             | No                   | 6            | 1990       | 2236 Route 130 North<br>Dayton NJ 08810                        | Yes                    | No                              |
| SALEM                               | Wed             | Yes                  | 1            | 1938       | 185 Woodstown Rd<br>Salem NJ 08079                             | No                     | Yes                             |
| SECAUCUS                            | Wed             | No                   | 6            | 1963       | County Ave & Secaucus Rd<br>Secaucus NJ 07094                  | Yes                    | No                              |
| SOUTHAMPTON                         | Wed             | No                   | 4            | 1989       | 1875 Route 38                                                  | Yes                    | No                              |

| Station Name                    | Open Late Night | Appointment Required | No. of Lanes | Year Built | Address                                              | Wait Time Gate/Tickets | Exempt from Wait Time Penalties |
|---------------------------------|-----------------|----------------------|--------------|------------|------------------------------------------------------|------------------------|---------------------------------|
|                                 |                 |                      |              |            | Southampton NJ 08088                                 |                        |                                 |
| WASHINGTON                      | Wed             | Yes                  | 1            | 1938       | Rt 31 North and Pershing Ave.<br>Washington NJ 07882 | No                     | Yes                             |
| WAYNE                           | Mon             | No                   | 8            | 1958       | 481 Route 46 West<br>Wayne NJ 07470                  | Yes                    | No                              |
| WESTFIELD                       | Tue             | Yes                  | 2            | 1938       | 410 South Avenue East<br>Westfield NJ 07090          | No                     | Yes                             |
| WINSLOW                         | Thur            | No                   | 3            | 2000       | 550 Spring Garden Rd.<br>Ancora NJ 08037             | Yes                    | Yes                             |
| Specialty Inspection Facilities |                 |                      |              |            |                                                      |                        |                                 |
| ASBURY PARK                     | No              | Yes                  | 1            | 1938       | 1010 Comstock St.<br>Asbury Park NJ 07712            | n/a                    | n/a                             |
| MORRISTOWN                      | No              | Yes                  | 1            | 1938       | 101 Ridgedale Ave.<br>Morristown NJ 07960            | n/a                    | n/a                             |
| WINSLOW                         | No              | Yes                  | 1            | 1991       | 550 Spring Garden Rd.<br>Ancora NJ 08037             | n/a                    | n/a                             |

## **APPENDIX C – HISTORICAL INSPECTION DATA**

Inspection volumes for 2004, 2005 and 2006 are shown in Tables C-1 to C-5. The State does not represent or warrant that this historical workload and testing volume reflect anticipated workloads and volumes.

The attached inspection volumes are expected to change with the new program. The changes are as follows:

- As of March 1, 2007, MVC reclassified certain safety rejections to advisories. In doing so, there will be approximately 100,000 less re-inspections performed at the CIFs each year and 6,000 less at the PIFs.
- With the commencement of the new contract, all vehicles four years or newer, whether new or used, will be exempted from inspection. It is estimated that there will be approximately 230,000 less inspections performed at the CIFs each year. PIFs can continue to offer inspections for any model year vehicle.
- With the commencement of the new contract, motorcycles will no longer require inspection. It is estimated that there will be approximately 18,500 less inspections performed at the CIFs each year and 5,500 less at the PIFs due to this change.
- With the commencement of the new contract, Omnibus “O” plated vehicles currently inspected biennially will require annual inspection. It is estimated that there will be approximately 3,500 more inspections performed at the CIFs each year and 800 more at the PIFs with this change.
- With the commencement of the new contract, Commercial “X” plated vehicles currently inspected biennially will require annual inspection. With this change, it is estimated that there will be approximately 39,000 more inspections performed at the CIFs each year and 29,000 more inspections at the PIFs.
- The State is discontinuing the practice of allowing courtesy or off-cycle inspections at the CIFs. It is estimated that by doing so there will be approximately 35,000 less inspections performed at the CIFs each year. The PIFs will be permitted to perform courtesy or off-cycle inspections therefore, the PIF volumes may increase by 35,000 inspections a year.

The attached inspection volumes are also expected to change as a result of changes in the vehicle fleet mix. Table C-5 provides the vehicle population by model year as of March 2007.

**Table C-1 - CIF Inspection Data for 2004, 2005, and 2006**

| Initial Tests        |                  |       |                  |       |                  |       |                  |
|----------------------|------------------|-------|------------------|-------|------------------|-------|------------------|
| Test Type            | 2004             | %     | 2005             | %     | 2006             | %     | Grand Total      |
| 2500                 | 25,869           | 1.51  | 28,568           | 1.56  | 22,567           | 1.31  | 77,004           |
| ASM                  | 521,270          | 30.47 | 495,904          | 27.16 | 340,009          | 19.71 | 1,357,183        |
| Idle                 | 46,551           | 2.72  | 50,215           | 2.75  | 46,675           | 2.71  | 143,441          |
| None                 | 51,047           | 2.98  | 52,252           | 2.86  | 45,295           | 2.63  | 148,594          |
| OBD                  | 1,065,779        | 62.31 | 1,198,896        | 65.66 | 1,270,664        | 73.65 | 3,535,339        |
| <b>Initial Tests</b> | <b>1,710,516</b> |       | <b>1,825,835</b> |       | <b>1,725,210</b> |       | <b>5,261,561</b> |

| Year           | Pass             | Pass Rate     | Fail             | Failure Rate  | Total Test       |
|----------------|------------------|---------------|------------------|---------------|------------------|
| 2004           | 1,446,760        | 65.30%        | 768,797          | 34.70%        | 2,215,557        |
| 2005           | 1,551,736        | 66.38%        | 785,928          | 33.62%        | 2,337,664        |
| 2006           | 1,482,592        | 67.37%        | 718,079          | 32.63%        | 2,200,671        |
| <b>Total</b>   | <b>4,481,088</b> | <b>66.35%</b> | <b>2,272,804</b> | <b>33.65%</b> | <b>6,753,892</b> |
| <b>Average</b> | <b>1,493,696</b> | <b>66.35%</b> | <b>757,601</b>   | <b>33.65%</b> | <b>2,251,297</b> |

| 2004         |               |               |                |               |                |                  |                  |
|--------------|---------------|---------------|----------------|---------------|----------------|------------------|------------------|
| Test Type    | MC            | 2500          | ASM            | Idle          | None           | OBD              | Total            |
| Initial      | 0             | 25,869        | 521,270        | 46,551        | 51,047         | 1,065,779        | 1,710,516        |
| *Motorcycle  | 18,766        | 0             | 0              | 0             | 0              | 0                | 18,766           |
| Retest       | 0             | 1,564         | 32,418         | 2,050         | 421,371        | 28,872           | 486,276          |
| <b>Total</b> | <b>18,766</b> | <b>27,433</b> | <b>553,688</b> | <b>48,601</b> | <b>472,418</b> | <b>1,094,651</b> | <b>2,215,557</b> |
| 2005         |               |               |                |               |                |                  |                  |
| Test Type    | MC            | 2500          | ASM            | Idle          | None           | OBD              | Total            |
| Initial      | 0             | 28,568        | 495,904        | 50,215        | 52,252         | 1,198,896        | 1,825,835        |
| *Motorcycle  | 19,489        | 0             | 0              | 0             | 0              | 0                | 19,489           |
| Retest       | 0             | 1,706         | 31,129         | 1,997         | 417,235        | 40,273           | 492,340          |
| <b>Total</b> | <b>19,489</b> | <b>30,274</b> | <b>527,033</b> | <b>52,212</b> | <b>469,487</b> | <b>1,239,169</b> | <b>2,337,664</b> |
| 2006         |               |               |                |               |                |                  |                  |
| Test Type    | MC            | 2500          | ASM            | Idle          | None           | OBD              | Total            |
| Initial      | 0             | 22,567        | 340,009        | 46,675        | 45,295         | 1,270,664        | 1,725,210        |
| *Motorcycle  | 17,685        | 0             | 0              | 0             | 0              | 0                | 17,685           |
| Retest       | 0             | 1,517         | 26,593         | 1,653         | 385,613        | 42,400           | 457,776          |
| <b>Total</b> | <b>17,685</b> | <b>24,084</b> | <b>366,602</b> | <b>48,328</b> | <b>430,908</b> | <b>1,313,064</b> | <b>2,200,671</b> |

\*Motorcycle counts include both initial and re-exams.

**Table C-2 - PIF Inspection Data for 2004, 2005, and 2006**

| Initial Tests        |                |       |                |       |                |       |                  |
|----------------------|----------------|-------|----------------|-------|----------------|-------|------------------|
| Test Type            | 2004           | %     | 2005           | %     | 2006           | %     | Grand Total      |
| 2500                 | 14,221         | 3.09  | 12,954         | 2.79  | 10,648         | 2.48  | 37,823           |
| ASM                  | 220,196        | 47.77 | 202,375        | 43.65 | 152,919        | 35.68 | 575,490          |
| Idle                 | 36,144         | 7.84  | 35,151         | 7.58  | 31,790         | 7.42  | 103,085          |
| None                 | 9,801          | 2.13  | 9,988          | 2.15  | 8,640          | 2.02  | 28,429           |
| OBD                  | 180,572        | 39.18 | 203,172        | 43.82 | 224,639        | 52.41 | 608,383          |
| <b>Initial Tests</b> | <b>460,934</b> |       | <b>463,640</b> |       | <b>428,636</b> |       | <b>1,353,210</b> |

| Year           | Pass             | Pass Rate    | Fail           | Failure Rate | Total Test       |
|----------------|------------------|--------------|----------------|--------------|------------------|
| 2004           | 541,870          | 85.2%        | 121,885        | 14.8%        | 663,755          |
| 2005           | 539,740          | 82.4%        | 115,228        | 17.6%        | 654,968          |
| 2006           | 485,448          | 82.4%        | 102,583        | 17.6%        | 588,031          |
| <b>Total</b>   | <b>1,567,058</b> | <b>82.2%</b> | <b>339,696</b> | <b>17.8%</b> | <b>1,906,754</b> |
| <b>Average</b> | <b>522,353</b>   | <b>79.2%</b> | <b>113,232</b> | <b>17.2%</b> | <b>635,585</b>   |

| 2004        |        |         |        |        |         |         |
|-------------|--------|---------|--------|--------|---------|---------|
| Test Type   | 2500   | ASM     | Idle   | None   | OBD     | Total   |
| Initial     | 14,221 | 220,196 | 36,144 | 9,801  | 180,572 | 460,934 |
| Retest      | 6,567  | 112,610 | 11,761 | 3,358  | 68,525  | 202,821 |
| Grand Total | 20,788 | 332,806 | 47,905 | 13,159 | 249,097 | 663,755 |
| 2005        |        |         |        |        |         |         |
| Test Type   | 2500   | ASM     | Idle   | None   | OBD     | Total   |
| Initial     | 12,954 | 202,375 | 35,151 | 9,988  | 203,172 | 463,640 |
| Retest      | 5,996  | 95,725  | 10,541 | 3,328  | 75,738  | 191,328 |
| Grand Total | 18,950 | 298,100 | 45,692 | 13,316 | 278,910 | 654,968 |
| 2006        |        |         |        |        |         |         |
| Test Type   | 2500   | ASM     | Idle   | None   | OBD     | Total   |
| Initial     | 10,649 | 152,919 | 31,790 | 8,640  | 224,639 | 428,636 |
| Retest      | 4,793  | 67,449  | 8,700  | 2,877  | 75,576  | 159,395 |
| Grand Total | 15,442 | 220,368 | 40,490 | 11,517 | 300,214 | 588,031 |

**Table C-3 - Number of PIF Stations by Number of Inspections Performed**

| Month | Number of Inspections in 2004 |       |        |      |
|-------|-------------------------------|-------|--------|------|
|       | 0-20                          | 21-50 | 51-100 | >100 |
|       | Number of PIF Stations        |       |        |      |
| Jan   | 509                           | 596   | 208    | 38   |
| Feb   | 413                           | 627   | 254    | 56   |
| Mar   | 302                           | 635   | 313    | 108  |
| Apr   | 315                           | 613   | 317    | 105  |
| May   | 344                           | 637   | 291    | 90   |
| Jun   | 276                           | 624   | 357    | 106  |
| Jul   | 332                           | 615   | 324    | 81   |
| Aug   | 346                           | 618   | 291    | 81   |
| Sep   | 362                           | 647   | 262    | 65   |
| Oct   | 400                           | 606   | 269    | 62   |
| Nov   | 446                           | 618   | 202    | 52   |
| Dec   | 476                           | 593   | 191    | 44   |

| Month | Number of Inspections in 2005 |       |        |      |
|-------|-------------------------------|-------|--------|------|
|       | 0-20                          | 21-50 | 51-100 | >100 |
|       | Number of PIF Stations        |       |        |      |
| Jan   | 496                           | 592   | 170    | 37   |
| Feb   | 471                           | 564   | 209    | 46   |
| Mar   | 306                           | 596   | 294    | 97   |
| Apr   | 298                           | 558   | 331    | 99   |
| May   | 287                           | 587   | 325    | 104  |
| Jun   | 276                           | 569   | 352    | 113  |
| Jul   | 312                           | 568   | 320    | 79   |
| Aug   | 266                           | 563   | 334    | 107  |
| Sep   | 309                           | 572   | 324    | 76   |
| Oct   | 345                           | 589   | 288    | 56   |
| Nov   | 385                           | 583   | 239    | 60   |
| Dec   | 465                           | 560   | 193    | 39   |

| Month | Number of Inspections in 2006 |       |        |      |
|-------|-------------------------------|-------|--------|------|
|       | 0-20                          | 21-50 | 51-100 | >100 |
|       | Number of PIF Stations        |       |        |      |
| Jan   | 398                           | 581   | 225    | 54   |
| Feb   | 465                           | 558   | 193    | 40   |
| Mar   | 314                           | 581   | 278    | 87   |
| Apr   | 351                           | 574   | 264    | 64   |
| May   | 311                           | 539   | 317    | 83   |
| Jun   | 314                           | 545   | 314    | 78   |
| Jul   | 398                           | 545   | 245    | 51   |
| Aug   | 307                           | 564   | 294    | 84   |
| Sep   | 385                           | 549   | 247    | 64   |
| Oct   | 370                           | 575   | 241    | 65   |
| Nov   | 428                           | 555   | 210    | 49   |
| Dec   | 470                           | 508   | 213    | 38   |



**Table C-4 - Number of Other State Inspections**

| Type of Inspection         | Number of Inspections |        |        |
|----------------------------|-----------------------|--------|--------|
|                            | 2004                  | 2005   | 2006   |
| DEIC                       | 91,859                | 84,593 | 84,414 |
| School Bus                 | 76,331                | 76,746 | 73,898 |
| Heavy Duty Diesel Roadside | 5,036                 | 8,695  | 6,770  |
| Commercial Bus In Terminal | 15,939                | 16,120 | 15,736 |
| Mobile Inspection Team     | 13,916                | 16,898 | 17,936 |

**Table C-5 – Vehicle Population by Model Year (as of March 2007)**

| Model Year | # of Registered Vehicles | Model Year | # of Registered Vehicles | Model Year | # of Registered Vehicles |
|------------|--------------------------|------------|--------------------------|------------|--------------------------|
| 2008       | 241                      | 1972       | 1,770                    | 1936       | 38                       |
| 2007       | 216,500                  | 1971       | 1,439                    | 1935       | 23                       |
| 2006       | 519,599                  | 1970       | 1,521                    | 1934       | 50                       |
| 2005       | 536,976                  | 1969       | 1,670                    | 1933       | 41                       |
| 2004       | 506,900                  | 1968       | 1,480                    | 1932       | 78                       |
| 2003       | 466,495                  | 1967       | 1,497                    | 1931       | 62                       |
| 2002       | 436,448                  | 1966       | 1,491                    | 1930       | 48                       |
| 2001       | 380,995                  | 1965       | 1,172                    | 1929       | 43                       |
| 2000       | 389,362                  | 1964       | 608                      | 1928       | 12                       |
| 1999       | 324,453                  | 1963       | 437                      | 1927       | 18                       |
| 1998       | 293,671                  | 1962       | 315                      | 1926       | 14                       |
| 1997       | 261,654                  | 1961       | 204                      | 1925       | 5                        |
| 1996       | 213,723                  | 1960       | 204                      | 1924       | 4                        |
| 1995       | 218,585                  | 1959       | 178                      | 1923       | 61                       |
| 1994       | 177,844                  | 1958       | 108                      | 1922       | 3                        |
| 1993       | 144,910                  | 1957       | 280                      | 1921       | 2                        |
| 1992       | 109,620                  | 1956       | 169                      | 1920       | 0                        |
| 1991       | 85,056                   | 1955       | 240                      | 1919       | 1                        |
| 1990       | 75,271                   | 1954       | 104                      | 1918       | 0                        |
| 1989       | 62,202                   | 1953       | 101                      | 1917       | 1                        |
| 1988       | 49,385                   | 1952       | 71                       | 1916       | 0                        |
| 1987       | 40,345                   | 1951       | 102                      | 1915       | 1                        |
| 1986       | 28,433                   | 1950       | 83                       | 1914       | 0                        |
| 1985       | 18,568                   | 1949       | 57                       | 1913       | 2                        |
| 1984       | 12,718                   | 1948       | 58                       | 1912       | 0                        |
| 1983       | 7,348                    | 1947       | 40                       | 1911       | 0                        |
| 1982       | 4,782                    | 1946       | 34                       | 1910       | 1                        |
| 1981       | 3,582                    | 1945       | 3                        | 1909       | 0                        |
| 1980       | 3,271                    | 1944       | 4                        | 1908       | 0                        |
| 1979       | 4,625                    | 1943       | 2                        | 1907       | 0                        |
| 1978       | 3,371                    | 1942       | 10                       | 1906       | 1                        |
| 1977       | 2,545                    | 1941       | 39                       | 1905       | 0                        |
| 1976       | 1,824                    | 1940       | 59                       | 1904       | 0                        |
| 1975       | 1,230                    | 1939       | 52                       | 1903       | 2                        |
| 1974       | 1,466                    | 1938       | 27                       | 1902       | 1                        |
| 1973       | 1,630                    | 1937       | 67                       | 1901       | 0                        |

| Total Number of Vehicles by Model Year |                  |
|----------------------------------------|------------------|
| Pre-1981                               | 36,170           |
| 1981-1995                              | 1,038,649        |
| 1996 and later                         | 4,547,017        |
| <b>Total Number of Vehicles</b>        | <b>5,621,836</b> |
| Percent of OBD Vehicles                | 80.9%            |

## APPENDIX D – HISTORICAL WAIT TIME DATA

**Table D-1 – Calculated Number of Daily Average Wait Time Violations for the Past Two Years**

|              | 2005 |    |    |    |    |   |    |    |   | 2006 |    |    |    |    |    |    |    |   |   |   |   | 2007 |    |    | 2-Year |
|--------------|------|----|----|----|----|---|----|----|---|------|----|----|----|----|----|----|----|---|---|---|---|------|----|----|--------|
| Facility     | A    | M  | J  | J  | A  | S | O  | N  | D | J    | F  | M  | A  | M  | J  | J  | A  | S | O | N | D | J    | F  | M  | Total  |
| Bakers Basin | 7    | 1  | 3  | 3  | 3  | 0 | 2  | 0  | 0 | 1    | 1  | 2  | 7  | 5  | 1  | 5  | 2  | 2 | 3 | 0 | 0 | 2    | 2  | 0  | 52     |
| Cherry Hill  | 0    | 1  | 1  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 2  | 1  | 1  | 0  | 0  | 1  | 0 | 0 | 0 | 0 | 0    | 1  | 2  | 10     |
| Delanco      | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 1  | 1  | 2      |
| Deptford     | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 0      |
| Eatontown    | 0    | 1  | 2  | 4  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 1  | 10 | 18     |
| Flemington   | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 0      |
| Freehold     | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 0      |
| Kilmer       | 0    | 1  | 1  | 1  | 2  | 1 | 1  | 3  | 1 | 2    | 4  | 3  | 5  | 0  | 0  | 1  | 2  | 0 | 0 | 0 | 0 | 2    | 1  | 2  | 33     |
| Lakewood     | 0    | 0  | 0  | 0  | 2  | 0 | 2  | 1  | 0 | 1    | 3  | 0  | 8  | 0  | 1  | 1  | 0  | 0 | 0 | 0 | 0 | 0    | 2  | 12 | 33     |
| Lodi         | 0    | 3  | 0  | 1  | 3  | 0 | 0  | 0  | 1 | 0    | 0  | 1  | 0  | 1  | 13 | 3  | 1  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 27     |
| Manahawkin   | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 6  | 0  | 6      |
| Mays Landing | 0    | 2  | 0  | 0  | 1  | 0 | 1  | 2  | 0 | 0    | 1  | 3  | 0  | 2  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 1  | 0  | 13     |
| Newark       | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 0      |
| Newton       | 0    | 6  | 5  | 0  | 1  | 0 | 2  | 0  | 0 | 3    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 17     |
| Paramus      | 0    | 0  | 4  | 9  | 4  | 0 | 0  | 0  | 1 | 0    | 0  | 6  | 2  | 1  | 0  | 10 | 5  | 0 | 0 | 0 | 0 | 1    | 2  | 2  | 47     |
| Rahway       | 0    | 1  | 6  | 0  | 1  | 0 | 1  | 0  | 2 | 0    | 1  | 0  | 0  | 0  | 1  | 4  | 0  | 0 | 1 | 0 | 3 | 2    | 3  | 5  | 31     |
| Randolph     | 4    | 0  | 4  | 3  | 0  | 0 | 2  | 2  | 1 | 2    | 3  | 3  | 3  | 4  | 0  | 7  | 3  | 0 | 1 | 0 | 3 | 4    | 0  | 2  | 51     |
| Secaucus     | 0    | 0  | 3  | 3  | 1  | 2 | 1  | 0  | 0 | 1    | 2  | 5  | 1  | 0  | 0  | 1  | 1  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 21     |
| S. Brunswick | 1    | 3  | 3  | 0  | 4  | 3 | 1  | 0  | 1 | 1    | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0 | 0 | 0 | 0 | 0    | 0  | 0  | 21     |
| Southampton  | 0    | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 0 | 0    | 0  | 0  | 0  | 0  | 0  | 6  | 2  | 1 | 0 | 0 | 0 | 0    | 0  | 0  | 9      |
| Wayne        | 0    | 0  | 0  | 3  | 0  | 0 | 0  | 2  | 0 | 0    | 2  | 2  | 1  | 0  | 0  | 3  | 3  | 3 | 1 | 0 | 1 | 1    | 2  | 4  | 28     |
| Total        | 12   | 19 | 32 | 27 | 22 | 6 | 13 | 10 | 7 | 11   | 17 | 27 | 28 | 14 | 16 | 45 | 20 | 6 | 6 | 0 | 7 | 12   | 22 | 40 | 419    |

**Table D-2 – Calculated Number of Monthly Average Wait Time Violation for the Past Two Years**

|              | 2005 |   |   |   |   |   |   |   |   |   | 2006 |   |   |   |   |   |   |   |   |   | 2007 |   |   | 2-Year |       |
|--------------|------|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|------|---|---|--------|-------|
| Facility     | A    | M | J | J | A | S | O | N | D | J | F    | M | A | M | J | J | A | S | O | N | D    | J | F | M      | Total |
| Bakers Basin | 1    |   |   | 1 | 1 |   |   |   |   |   |      |   | 1 | 1 |   | 1 |   |   |   |   |      |   |   |        | 6     |
| Cherry Hill  |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 0     |
| Delanco      |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 0     |
| Deptford     |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 0     |
| Eatontown    |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   | 1 |        | 1     |
| Flemington   |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 0     |
| Freehold     |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 0     |
| Kilmer       |      |   |   |   |   |   |   | 1 |   |   |      |   | 1 |   | 1 | 1 |   |   |   |   |      |   |   |        | 4     |
| Lakewood     |      |   |   |   |   |   |   |   |   |   |      |   | 1 |   |   |   |   |   |   |   |      |   | 1 |        | 2     |
| Lodi         |      | 1 |   | 1 |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 2     |
| Manahawkin   |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      | 1 |   |        | 1     |
| Mays Landing |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 0     |
| Newark       |      |   |   |   |   |   |   |   |   |   |      |   | 1 |   |   |   |   |   |   |   |      |   |   |        | 1     |
| Newton       |      | 1 | 1 |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |      |   |   |        | 2     |
| Paramus      |      |   | 1 | 1 |   |   |   |   |   |   |      | 1 |   |   |   | 1 | 1 |   |   |   |      |   |   |        | 5     |
| Rahway       |      |   | 1 |   |   |   |   |   |   |   |      |   |   |   |   | 1 |   |   |   |   |      |   |   |        | 2     |
| Randolph     |      | 1 | 1 |   |   |   |   | 1 |   |   |      |   |   | 1 |   | 1 |   |   |   |   |      |   |   |        | 5     |
| Secaucus     |      |   | 1 |   |   |   |   |   |   |   |      |   |   |   |   | 1 |   |   |   |   |      |   |   |        | 2     |
| S. Brunswick |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   | 1 |   |   |   |   |      |   |   |        | 1     |
| Southampton  |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   | 1 |   |   |   |   |      |   |   |        | 1     |
| Wayne        |      |   |   |   |   |   |   |   |   |   |      |   |   |   |   | 1 |   |   |   |   |      |   |   |        | 1     |
| Total        | 1    | 3 | 5 | 3 | 1 | 0 | 0 | 2 | 0 | 0 | 0    | 1 | 4 | 2 | 1 | 9 | 1 | 0 | 0 | 0 | 0    | 0 | 1 | 2      | 36    |

## **APPENDIX E – STATE AUDIT REQUIREMENTS**

### **DEP Audits**

DEP is responsible for auditing emission inspection equipment used at CIFs. The USEPA requires that high volume inspection lanes undergo complete emissions audits once per month. This frequency may vary based upon DEP's operational constraints and analysis of inspection lane performance. Some lanes might be audited more frequently than others. Some lanes may be specifically targeted for audit based on analysis of inspection records or if DEP suspects a malfunction within the lane or facility. SIFs have traditionally been low volume facilities and only require audit once every six months by USEPA protocol. For purposes of the contract resulting from this RFP, CIF and SIF audits are the same.

This audit protocol can be implemented on a regular or unscheduled basis at all CIFs to ensure that the emissions testing equipment meets the appropriate criteria during enhanced emissions inspections. The ultimate objective of the audits is to maximize the overall effectiveness of the program through ensuring acceptable and consistent testing at all of the lanes which are located throughout the CIFs.

Upon entering the CIF, the auditor will present identification, contact and inform the Station Manager (or representative) and advise that an emissions testing equipment audit will be performed upon any lane that the auditor has randomly selected. At such time that the Station Manager is informed of the audit, no new maintenance or new servicing of any equipment in the lane that is subject to the audit may begin without approval of the auditor. The Station Manager (or representative) shall provide the auditor with access to the requested lane and shall not interfere with the commencement of an audit of any lane.

The contractor shall not interfere with an audit of a lane that is being repaired, provided that the audit will not impede the repairs. The auditor will not perform any adjustments or repairs to the CIF equipment prior to, during, or after the audit. If an auditor requires an observation of the interior of the analyzer cabinet, the auditor will request the Station Manager (or his designee) to be present and to open the cabinet.

Audits will be performed upon a lane in its "as-is" in-service condition. The audit lane should not be in "lock-out" mode; if it is, the auditor shall remove the "lock-out."

Prior to closing any lane for the purpose of conducting an audit, the station manager or his designee shall remove any inspection stickers from the lane in order to maintain secure handling of the stickers. The auditor is responsible for placing at the lane entrance a sign that reads "Lane Closed – State Audit in Progress."

The following components, at a minimum, will be audited.

- Weather Station
- Analyzer
- Zero Air Generator (ZAG)
- RPM Measurement
- OBDII System
- Gas Cap Tester

Detailed audit procedures and tolerances currently in use will be provided upon contract award.

Data accumulated during the audit shall be recorded by each auditor. The Contractor shall not be required to record state audit data and results.

If the equipment passes an audit, the auditor will:

- Inform the Station Manager that the lane can be used for official inspections.
- Complete and sign the audit summary sheet and form as necessary.
- Provide a copy to the Station Manager.

If the equipment fails an audit, the auditor will:

- At the lane entrance, replace the sign that reads “ Lane Closed - State Audit in Progress” with a sign that reads “ Lane Closed For Repairs”.
- Notify the Station Manager that the lane has been placed out of service.
- Sign the audit summary sheet and form and provide a copy to the Station Manager.
- Explain the details of the failure to the Station Manager.
- Request the Station Manager sign the form for concurrence.
- Request the Station Manager contact the appropriate repair technician and make arrangements for repair and/or replacement of the equipment that failed the audit.

Any component of the equipment that fails an audit check shall be re-calibrated (if applicable) by the repair technician. If the equipment still fails after re-calibration, the unit will be locked out from further testing until repaired. The repair technician must then inspect the equipment, and identify and correct the cause of failure. Following any required service or repair, an auditor will endeavor to return during a normal workday to perform a follow-up audit to ensure that the equipment passes the audit.

If a repair technician makes corrections while the auditor is still present, the auditor will make a conscientious effort to perform a re-audit of the equipment to minimize the amount of lane downtime provided there is sufficient time left in the auditor's work day. If there is not sufficient time left in the auditor's workday, a DEP auditor will endeavor to perform a re-audit of the equipment the following work day.

If the equipment passes the re-audit, the auditor will:

- Remove the sign that reads “Lane Closed for Repairs.”
- Inform the Station Manager that the lane can be re-opened for official inspections.
- Revise or redo as necessary and sign the audit summary sheet and form.
- Provide a copy of the signed forms to the Station Manager.

If the repair technician repairs the lane but the auditor is not available to re-audit, the lane can be re-opened by the Station Manager (or designee) provide the repair technician has corrected the problem and performs a self-audit of the equipment in question. The self-audit shall be performed in accordance with the methods and tolerances agreed upon by the State and the contractor. In addition, a member of the contractor's management staff must sign the equipment audit sheet verifying that the equipment meets the current specifications before putting the equipment in service. The DEP auditor will re-audit the repaired lane upon the next

arrival to the station to confirm that the necessary repairs were made. Once the criteria have been met for self-audit, the Station Manager shall remove the sign that reads "Lane Closed for Repairs."

## **MVC Audits**

MVC is responsible for conducting audits at the CIFs to ensure the quality and integrity of the emission and safety programs. MVC conducts the following audits:

- Covert Audits are unannounced audits to ensure that all licensed inspectors are following all procedures and protocols set by the State.
- Post-Covert Audits are interviews conducted with the responsible inspector if any infractions are discovered.
- Remote Observation Audits are unannounced audits to ensure that all licensed inspectors are following all policies, procedures, and protocols related to the inspection process. These audits are performed by stationing an auditor(s) at a discreet distance from a Central Lane with the best possible view of the inspection process.
- Inspector Performance Audits are performed on an annual basis and require that the inspector actually perform a complete inspection in the presence of an MVC auditor to demonstrate full knowledge of procedures, policies, and protocols during the inspection process.
- Reconciliation Audits are conducted on a monthly basis to review the monthly billing invoice from the contractor.
- Sticker Inventory Audits are conducted twice a year at each CIF to ensure that the contractor is following the established protocol. The audit determines whether all stickers assigned to the CIF are accounted for, all journal entries are completed, and all security and procedures for the issuance of all stickers are followed.
- Warehouse/Distribution Center Audits are done on a periodic or as needed basis at the contractor sticker distribution center to ensure the established protocol (to be developed by the contractor and approved by the State) is followed.
- Safety Equipment Audits are conducted on a biannual basis at each CIF to ensure that the contractor is maintaining the safety equipment and will not unjustly fail a vehicle during a safety inspection. These audits are scheduled by the State in advance.

## **AUDIT SCHEDULE**

DEP audits will be conducted according to the following schedule:

- All facilities with more than two lanes may be audited, unscheduled and unannounced, during normal operating hours. The core operating hours for DEP staff are Monday through Friday from 8:00 AM until 5:00 PM.
- For all two-lane facilities, audits will be scheduled by appointment on a normal workday or as otherwise agreed. Only one (1) lane will be closed at a time at two-lane facilities.
- For all single lane facilities, audits will be scheduled by appointment on a normal workday or as otherwise agreed.

This schedule does not limit the authority of DEP/MVC to conduct an audit at any time.

Within 24 hours notice provided by the State, the contractor shall provide access during non-working hours to perform any checks that the State may require.

The contractor shall immediately cease vehicle testing at any lane or station where the equipment or system in the inspection lane or station fails a quality control or quality assurance audit. The contractor shall repair or correct the lane or station, and the State shall verify that the repair or correction has been made, before vehicle testing can resume at that lane or station.



## APPENDIX F – FACILITY BUILDINGS, UTILITIES, AND GROUNDS

**Table F-1 – State and Contractor Responsibilities**

| Station Name | Acres | Building Square Footage | Operation               | Routine Maintenance Janitorial & Repair | Utilities |       |               |               |          |       | Grounds |
|--------------|-------|-------------------------|-------------------------|-----------------------------------------|-----------|-------|---------------|---------------|----------|-------|---------|
|              |       |                         |                         |                                         | Gas/ Oil  | Water | Sewer/ Septic | Trash Removal | Electric | Phone |         |
| Bakers Basin | 12.53 | 27,520                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office   | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test        | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | MVC Agency              | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Field House             | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Bridgeton    | 2.43  | 4,800                   | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Cape May     | 0.46  | 4,890                   | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Cherry Hill  | 9.00  | 22,905                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office   | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test        | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Delanco      | 1.15  | 13,590                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Deptford     | 20.00 | 18,785                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Eatontown    | 13.05 | 20,671                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office   | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test        | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Field House             | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | MVC Agency              | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Regional Service Center | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Flemington   | 4.50  | 11,690                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Future Driver Testing   | State                                   | State     | State | State         | State         | State    | State | Cont.   |
|              |       |                         | Future MVC Agency       | State                                   | State     | State | State         | State         | State    | State | Cont.   |
| Freehold     | 14.80 | 23,490                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Future Driver Testing   | State                                   | State     | State | State         | State         | State    | State | Cont.   |
|              |       |                         | Future MVC Agency       | State                                   | State     | State | State         | State         | State    | State | Cont.   |
| Kilmer       | 5.48  | 24,070                  | Inspection Station      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |

| Station Name | Acres | Building Square Footage | Operation             | Routine Maintenance Janitorial & Repair | Utilities |       |               |               |          |       | Grounds |
|--------------|-------|-------------------------|-----------------------|-----------------------------------------|-----------|-------|---------------|---------------|----------|-------|---------|
|              |       |                         |                       |                                         | Gas/ Oil  | Water | Sewer/ Septic | Trash Removal | Electric | Phone |         |
| Kilmer       |       |                         | Driver Testing Office | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Lakewood     | 3.93  | 23,490                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Lodi         | 13.84 | 18,516                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test      | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | MVC Agency            | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Manahawkin   | 5.10  | 7,895                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Mays Landing | 11.13 | 17,905                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
|              |       |                         | Driver Road Test      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Millville    | 0.65  | 8,000                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
|              |       |                         | Driver Road Test      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Montclair    | 0.27  | 5,731                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Newark       | 3.55  | 21,340                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test      | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | MVC Agency            | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Newton       | 1.46  | 8,140                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Paramus      | 5.46  | 21,230                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Plainfield   | 1.90  | 11,420                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | MVC Field Office      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Rahway       | 16.50 | 23,896                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test      | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | MVC Agency            | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Randolph     | 19.10 | 21,835                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Future Driver Testing | State                                   | State     | State | State         | State         | State    | State | Cont.   |

| Station Name | Acres | Building Square Footage | Operation             | Routine Maintenance Janitorial & Repair | Utilities |       |               |               |          |       | Grounds |
|--------------|-------|-------------------------|-----------------------|-----------------------------------------|-----------|-------|---------------|---------------|----------|-------|---------|
|              |       |                         |                       |                                         | Gas/ Oil  | Water | Sewer/ Septic | Trash Removal | Electric | Phone |         |
|              |       |                         | Future MVC Agency     | State                                   | State     | State | State         | State         | State    | State | Cont.   |
| S Brunswick  | 10.00 | 21,490                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Future Driver Testing | State                                   | State     | State | State         | State         | State    | State | Cont.   |
|              |       |                         | Future MVC Agency     | State                                   | State     | State | State         | State         | State    | State | Cont.   |
| Salem        | 1.20  | 4,480                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
|              |       |                         | Driver Road Test      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Secaucus     | 6.10  | 17,715                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Southampton  | 9.50  | 17,905                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
|              |       |                         | Driver Road Test      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Washington   | 0.37  | 4,787                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
|              |       |                         | Driver Road Test      | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | State | Cont.   |
| Wayne        | 15.00 | 29,426                  | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Driver Road Test      | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | MVC Agency            | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
|              |       |                         | Field House           | State                                   | State     | Cont. | Cont.         | Cont.         | State    | State | Cont.   |
| Westfield    | 0.34  | 7,437                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
| Winslow      | 36.99 | 9,456                   | Inspection Station    | Cont.                                   | Cont.     | Cont. | Cont.         | Cont.         | Cont.    | Cont. | Cont.   |
|              |       |                         | Driver Testing Office | State                                   | State     | Cont. | Cont.         | State         | State    | State | Cont.   |
|              |       |                         | Driver Road Test      | State                                   | State     | Cont. | Cont.         | State         | State    | State | Cont.   |
|              |       | 13,198                  | Specialty Site        | State                                   | State     | Cont. | Cont.         | State         | State    | State | Cont.   |

Cont. indicates that the contractor is responsible.

State indicates that the State is responsible.

Future indicates that MVC plans to construct a new building on site to house this operation.

**Table F-2 - Expenditures for Routine Facility and Grounds Maintenance and Utilities**

| Facility Expenditures                                                                              | Actual FY2004      | Actual FY2005      | Actual FY2006      |
|----------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
| Routine Facility and Grounds Maintenance and Repairs (Janitorial, snow removal, landscaping, etc.) | \$1,427,017        | \$1,419,879        | \$1,445,072        |
| Facility fuels and utilities, water, and sewage/septic                                             | \$1,195,351        | \$1,220,853        | \$1,345,633        |
| <b>Subtotal</b>                                                                                    | <b>\$2,622,368</b> | <b>\$2,640,732</b> | <b>\$2,790,705</b> |

**Table F-3 - Expenditures for Facility Renovations, Maintenance and Repairs**

| Facility Expenditures                                                                                                                                                                                                                         | Actual FY2004 | Actual FY2005 | Actual FY2006 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|
| Facility Renovations, Maintenance and Repairs (Roof repair, fire system inspection and repairs, site safety repairs such as paving potholes, building maintenance and repairs including HVAC, plumbing, electrical, and overhead doors, etc.) | \$1,199,936   | \$1,159,114   | \$1,433,152   |

## APPENDIX G – EQUIPMENT TO BE REMOVED/REPLACED

| Facility Name | Lanes in Station | Lane Number |      |      |      |      |      |   |   |
|---------------|------------------|-------------|------|------|------|------|------|---|---|
|               |                  | 1           | 2    | 3    | 4    | 5    | 6    | 7 | 8 |
| BAKERS BASIN  | 6                | E,S1        | E,S1 | E,S1 | E,S1 | E,S2 | M,S2 |   |   |
| BRIDGETON     | 1                | E,S1        |      |      |      |      |      |   |   |
| CAPE MAY      | 1                | E,S1        |      |      |      |      |      |   |   |
| CHERRY HILL   | 6                | E,S1        | E,S1 | E,S1 | E,S1 | E,S2 | M,S2 |   |   |
| DELANCO       | 3                | E,S1        | E,S1 | E,S2 |      |      |      |   |   |
| DEPTFORD      | 4                | E,S1        | E,S1 | E,S1 | E,S2 |      |      |   |   |
| EATONTOWN     | 6                | E,S1        | E,S1 | E,S1 | E,S1 | E,S2 | E,S2 |   |   |
| FLEMINGTON    | 3                | E,S1        | E,S2 | E,S2 |      |      |      |   |   |
| FREEHOLD      | 6                | E,S1        | E,S2 | E,S2 | E,S2 | E,S2 | E,S2 |   |   |
| KILMER        | 6                | E,S1        | E,S1 | E,S1 | E,S2 | E,S2 | E,S2 |   |   |
| LAKEWOOD      | 6                | E,S1        | E,S2 | E,S2 | E,S2 | E,S2 | E,S2 |   |   |
| LODI          | 5                | E,S1        | E,S1 | E,S1 | E,S2 | E,S2 |      |   |   |
| MANAHAWKIN    | 3                | E,S1        | E,S2 | E,S2 |      |      |      |   |   |
| MAYS LANDING  | 4                | E,S1        | E,S1 | E,S2 | E,S2 |      |      |   |   |
| MILLVILLE     | 2                | E,S1        | E,S2 |      |      |      |      |   |   |

### KEY

#### **E = Emission Equipment:**

Vertronix ODBII Interface Module  
 Exhaust Sample System  
 NDIR Tri-Gas Bench, HC, CO, CO2  
 NDIR NOx Bench  
 Mustang Dynamometer  
 RPM Antenna Probe  
 RPM Inductive Probe  
 ZAG  
 Gas Cap/Tank Pressure Tester  
 Calibration Gas Supply Lines

#### **M = METT Emission Equipment:**

Vertronix ODBII Interface Module  
 METT Sample System  
 HC FID & NO CLD  
 CO & CO2 NDIR  
 Mustang Dynamometer IM240  
 RPM Antenna Probe  
 RPM Inductive Probe  
 ZAG  
 Gas Cap/Tank Pressure Tester  
 Calibration Gas Supply Lines

#### **A = AWD Emission Equipment:**

Vertronix ODBII Interface Module  
 Exhaust Sample System  
 NDIR Tri-Gas Bench, HC, CO, CO2  
 NDIR NOx Bench  
 Mustang Dynamometer NJ-AWD  
 RPM Antenna Probe  
 RPM Inductive Probe  
 ZAG  
 Gas Cap/Tank Pressure Tester  
 Calibration Gas Supply Lines

#### **S1 = Safety Equipment:**

Lift  
 Steering Targets/Towers  
 Suspension Testers

#### **S2 = Safety Equipment:**

Steering Targets/Towers  
 Suspension Testers

| Facility Name                                                                                                                                                                                                                                                                              | Lanes in Station | Lane Number |      |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|
|                                                                                                                                                                                                                                                                                            |                  | 1           | 2    | 3                                                                                                                                                                                                                                                                                                     | 4    | 5    | 6    | 7    | 8    |
| MONTCLAIR                                                                                                                                                                                                                                                                                  | 2                | E,S1        | E,S1 |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
| NEWARK                                                                                                                                                                                                                                                                                     | 5                | E,S1        | E,S1 | E,S1                                                                                                                                                                                                                                                                                                  | E,S1 | E,S2 |      |      |      |
| NEWTON                                                                                                                                                                                                                                                                                     | 2                | E,S1        | E,S2 |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
| PARAMUS                                                                                                                                                                                                                                                                                    | 5                | E,S1        | E,S1 | E,S1                                                                                                                                                                                                                                                                                                  | E,S2 | E,S2 |      |      |      |
| PLAINFIELD                                                                                                                                                                                                                                                                                 | 3                | E,S1        | E,S2 | E,S2                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |
| RAHWAY                                                                                                                                                                                                                                                                                     | 6                | E,S1        | E,S1 | E,S1                                                                                                                                                                                                                                                                                                  | E,S1 | E,S2 | E,S2 |      |      |
| RANDOLPH                                                                                                                                                                                                                                                                                   | 6                | E,S1        | E,S1 | E,S1                                                                                                                                                                                                                                                                                                  | E,S2 | E,S2 | E,S2 |      |      |
| S BRUNSWICK                                                                                                                                                                                                                                                                                | 6                | E,S1        | E,S1 | E,S2                                                                                                                                                                                                                                                                                                  | E,S2 | E,S2 | A,S2 |      |      |
| SALEM                                                                                                                                                                                                                                                                                      | 1                | E,S1        |      |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
| SECAUCUS                                                                                                                                                                                                                                                                                   | 6                | E,S1        | E,S1 | E,S1                                                                                                                                                                                                                                                                                                  | E,S1 | E,S2 | E,S2 |      |      |
| SOUTHAMPTON                                                                                                                                                                                                                                                                                | 4                | E,S1        | E,S1 | E,S2                                                                                                                                                                                                                                                                                                  | E,S2 |      |      |      |      |
| WASHINGTON                                                                                                                                                                                                                                                                                 | 1                | E,S1        |      |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
| WAYNE                                                                                                                                                                                                                                                                                      | 8                | E,S1        | E,S1 | E,S1                                                                                                                                                                                                                                                                                                  | E,S1 | E,S1 | E,S2 | E,S2 | E,S2 |
| WESTFIELD                                                                                                                                                                                                                                                                                  | 2                | E,S1        | E,S1 |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
| WINSLOW                                                                                                                                                                                                                                                                                    | 3                | E,S1        | E,S2 | E,S2                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |
| <b>KEY</b>                                                                                                                                                                                                                                                                                 |                  |             |      |                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |
| <b>E = Emission Equipment:</b><br>Vertronix ODBII Interface Module<br>Exhaust Sample System<br>NDIR Tri-Gas Bench, HC, CO, CO2<br>NDIR NOx Bench<br>Mustang Dynamometer<br>RPM Antenna Probe<br>RPM Inductive Probe<br>ZAG<br>Gas Cap/Tank Pressure Tester<br>Calibration Gas Supply Lines |                  |             |      | <b>A = AWD Emission Equipment:</b><br>Vertronix ODBII Interface Module<br>Exhaust Sample System<br>NDIR Tri-Gas Bench, HC, CO, CO2<br>NDIR NOx Bench<br>Mustang Dynamometer NJ-AWD<br>RPM Antenna Probe<br>RPM Inductive Probe<br>ZAG<br>Gas Cap/Tank Pressure Tester<br>Calibration Gas Supply Lines |      |      |      |      |      |
| <b>M = METT Emission Equipment:</b><br>Vertronix ODBII Interface Module<br>METT Sample System<br>HC FID & NO CLD<br>CO & CO2 NDIR<br>Mustang Dynamometer IM240<br>RPM Antenna Probe<br>RPM Inductive Probe<br>ZAG<br>Gas Cap/Tank Pressure Tester<br>Calibration Gas Supply Lines          |                  |             |      | <b>S1 = Safety Equipment:</b><br>Lift<br>Steering Targets/Towers<br>Suspension Testers<br><br><b>S2 = Safety Equipment:</b><br>Steering Targets/Towers<br>Suspension Testers                                                                                                                          |      |      |      |      |      |

### **LIFT REPLACEMENT CHART**

|                      | Remove and<br>Replace              | Remove and<br>Replace              | Install Only                       |                |
|----------------------|------------------------------------|------------------------------------|------------------------------------|----------------|
|                      | Lane Number for<br>Heavy Duty Lift | Lane Number for<br>Light Duty Lift | Lane Number for<br>Light Duty Lift | Total<br>Lanes |
| Bakers Basin         | 1                                  | 2,3,4                              | 5,6                                | 6              |
| Bridgeton            | 1                                  |                                    |                                    | 1              |
| Cape May             | 1                                  |                                    |                                    | 1              |
| Cherry Hill          | 1                                  | 2,3,4                              | 5,6                                | 6              |
| Delanco              | 1                                  | 2                                  | 3                                  | 3              |
| Deptford             | 1                                  | 2,3                                | 4                                  | 4              |
| Eatontown            | 1                                  | 2,3,4                              | 5,6                                | 6              |
| Flemington           | 1                                  |                                    | 2,3                                | 3              |
| Freehold             | 1                                  |                                    | 2,3,4,5,6                          | 6              |
| Kilmer               | 1                                  | 2,3                                | 4,5,6                              | 6              |
| Lakewood             | 1                                  |                                    | 2,3,4,5,6                          | 6              |
| Lodi                 | 1                                  | 2,3                                | 4,5                                | 5              |
| Manahawkin           | 1                                  |                                    | 2,3                                | 3              |
| Mays Landing         | 1                                  | 2                                  | 3,4                                | 4              |
| Millville            | 1                                  |                                    | 2                                  | 2              |
| Montclair            | 1                                  | 2                                  |                                    | 2              |
| Newark               | 1                                  | 2,3,4                              | 5                                  | 5              |
| Newton               | 1                                  |                                    | 2                                  | 2              |
| Paramus              | 1                                  | 2,3                                | 4,5                                | 5              |
| Plainfield           | 1                                  |                                    | 2,3                                | 3              |
| Rahway               | 1                                  | 2,3,4                              | 5,6                                | 6              |
| Randolph             | 1                                  | 2,3                                | 4,5,6                              | 6              |
| South Brunswick      | 1                                  | 2                                  | 3,4,5,6                            | 6              |
| Salem                | 1                                  |                                    |                                    | 1              |
| Secaucus             | 1                                  | 2,3,4                              | 5,6                                | 6              |
| Southampton          | 1                                  | 2                                  | 3,4                                | 4              |
| Washington           | 1                                  |                                    |                                    | 1              |
| Wayne                | 1                                  | 2,3,4,5                            | 6,7,8                              | 8              |
| Westfield            | 1                                  | 2                                  |                                    | 2              |
| Winslow              | 1                                  |                                    | 2,3                                | 3              |
| Asbury Specialty     | 1                                  |                                    |                                    | 1              |
| Morristown Specialty | 1                                  |                                    |                                    | 1              |
| Winslow Specialty    | 1                                  |                                    |                                    | 1              |
| <b>Total</b>         | <b>33</b>                          | <b>38</b>                          | <b>54</b>                          | <b>125</b>     |

### **BRAKE EQUIPMENT CHART**

| Station Name | # of<br>Lanes | Heavy Duty<br>Brake Tester | Light Duty<br>Brake Tester | Year<br>Installed |
|--------------|---------------|----------------------------|----------------------------|-------------------|
| BAKERS BASIN | 6             | 1                          | 5                          | 1999              |
| BRIDGETON    | 1             | 1                          | 0                          | 1999              |
| CAPE MAY     | 1             | 1                          | 0                          | 1999              |
| CHERRY HILL  | 6             | 1                          | 5                          | 1999              |

| Station Name          | # of Lanes | Heavy Duty Brake Tester | Light Duty Brake Tester | Year Installed |
|-----------------------|------------|-------------------------|-------------------------|----------------|
| DELANCO               | 3          | 1                       | 2                       | 1999           |
| DEPTFORD              | 4          | 1                       | 3                       | 1999           |
| EATONTOWN             | 6          | 1                       | 5                       | 1999           |
| FLEMINGTON            | 3          | 1                       | 2                       | 1999           |
| FREEHOLD              | 6          | 1                       | 5                       | 1999           |
| KILMER                | 6          | 1                       | 5                       | 1999           |
| LAKEWOOD              | 6          | 1                       | 5                       | 1999           |
| LODI                  | 5          | 1                       | 4                       | 1999           |
| MANAHAWKIN            | 3          | 1                       | 2                       | 1999           |
| MAYS LANDING          | 4          | 1                       | 3                       | 1999           |
| MILLVILLE             | 2          | 1                       | 1                       | 1999           |
| MONTCLAIR             | 2          | 1                       | 1                       | 1999           |
| NEWARK                | 5          | 1                       | 4                       | 1999           |
| NEWTON                | 2          | 1                       | 1                       | 1999           |
| PARAMUS               | 5          | 1                       | 4                       | 1999           |
| PLAINFIELD            | 3          | 1                       | 2                       | 1999           |
| RAHWAY                | 6          | 1                       | 5                       | 1999           |
| RANDOLPH              | 6          | 1                       | 5                       | 1999           |
| S BRUNSWICK           | 6          | 1                       | 5                       | 1999           |
| SALEM                 | 1          | 1                       | 0                       | 1999           |
| SECAUCUS              | 6          | 1                       | 5                       | 1999           |
| SOUTHAMPTON           | 4          | 1                       | 3                       | 1999           |
| WASHINGTON            | 1          | 1                       | 0                       | 1999           |
| WAYNE                 | 8          | 1                       | 7                       | 1999           |
| WESTFIELD             | 2          | 1                       | 1                       | 1999           |
| WINSLOW               | 3          | 1                       | 2                       | 1999           |
| ASBURY PARK SPECIALTY | 1          | 1                       | 0                       | 1999           |
| MORRISTOWN SPECIALTY  | 1          | 1                       | 0                       | 1999           |
| WINSLOW SPECIALTY     | 1          | 1                       | 0                       | 1999           |
| <b>Totals</b>         | <b>125</b> | <b>33</b>               | <b>92</b>               |                |

All braking equipment is in operable condition. During the term of this contract, if light-duty brake testers become economically impractical to repair, they must be replaced by the contractor with a heavy-duty brake tester.



## **APPENDIX H – SPECIFICATIONS FOR LIFTS**

In the lanes with lifts, the contractor shall install new in-ground equipment mounted within a manufactured lift box utilizing the existing lift area without any soil digging.

The existing pneumatic/hydraulic operated lifts shall have their tanks drained and decommissioned. The drained lift oil shall be transported and disposed of according to all Federal and State regulations.

In the lanes without existing lifts, the contractor shall install lifts at locations specified in Appendix G. The contractor shall insure adequate air supply/generation and air connectivity to all newly installed lifts in each facility.

The lift shall be flush, level to the floor when in the down position. It shall be of corrosive protection coated steel construction with an internal airbag encased in a moisture proof cylindrical steel tube for lifting and shall be entirely pneumatic utilizing no hydraulic fluids.

The heavy duty front suspension lift shall have a maximum 18 inch stroke rise with a 25,000 lb lift capacity and the light duty front suspension lifts a 12,000 lb lift capacity with the same stroke rise. The lift head shall be adaptable to fit under and securely lift all vehicle front suspension configurations as practical without damage to the vehicle. It shall have sufficient guidance and support for straight and accurate lifting with no vehicle slippage while in the lift position.

The lift shall be operated with air supplied underground from a remote air control valve mounted on a tower approximately 36 inches from ground level adjacent to the lift area. Air supply shall be sufficient to allow all the lifts in a facility to raise vehicles simultaneously with enough reserve capacity to continuously raise vehicles without interruption.

The in-ground lift containment area shall be easily accessible for weekly clean out and shall contain a water drainage system with clean out capabilities.

## **APPENDIX I – SPECIFICATIONS FOR NEW VIDEO SECURITY SYSTEM**

The contractor shall provide new fix-mounted color cameras and back-end equipment (rack, digital video recorder, monitor, etc) for each CIF and SIF.

The State may add additional camera locations or move camera locations in these facilities at any time within a five year period after the issuance of the project. This additional work shall be processed as a change orders.

The project is designed to allow for expansion and growth. Though some back-end equipment may not be directly used for this project, the equipment may still need to be installed and integrated to allow for the future addition of cameras.

The Contractor shall review best wire and cable paths. The new fixed cameras shall be positioned according to drawings submitted by the Contractor and approved by the State. Once the project begins, each camera location shall be confirmed by the State program manager before the wall mount or camera housing is secured. Cameras shall be housed in appropriate housings, including corner-mount housings, high security housings, indoor housings, and environmental housings.

Wire and cable for each camera location shall be carefully installed to ensure that all state and local low voltage electrical codes and wiring requirements are strictly followed. Contractor shall be responsible for following all state and local electrical code requirements. Any deviation from state or local electrical code requirements shall be repaired at contractor's expense. All power and video cable, conduit, and wire shall be installed according to State electrical code. Power over Ethernet (POE) wiring shall be installed from each camera location to the back-end equipment location. Power cables locations to be coordinated with the State. As code allows, all above-ceiling, secure, and unexposed wire and cable shall be run without conduit and shall be considered "free run". Plenum cable shall be required as low voltage electrical code dictates; otherwise non-plenum cable is acceptable. All open, non-secure, easily accessible, and visible wire and cable shall be installed in conduit and wire-mold according to codes and electrical laws. All conduit and wire-mold shall be attractive in appearance and colors shall coordinate with existing wall colors.

All cutting, coring, and patching of walls shall be accomplished according to state and local code, and shall be sealed against weather and moisture. Contractor shall provide all building permits for above mentioned activities. Contractor's warranty shall cover all cutting, coring and patching.

Contractor to provide 20 ft extra power and video wire and cable at each camera coiled above the ceiling or within conduit so it cannot be seen. This is to allow for future movement of cameras within the facility. All wire and cable shall be neatly dressed and tie wrapped. All wire and cable shall terminate directly into back-end equipment with no splicing or patching. All cables shall be labeled with professional labels.

- Installation Requirements - Install all of the indoor fixed color lane cameras at the vehicle test stations including digital video recorder (DVR). All the DVR's shall have the capability of handling all the cameras for the entire Vehicle Inspection Station. If the DVR is not large enough to handle all cameras in the larger facilities then a second or more DVR(s) may need to be bid. Install video equipment with all power supplies, terminal strips, conduit,

plastic wire ways, and other equipment as required. All programming and preliminary testing of equipment shall be accomplished prior to installation. Follow installation procedures and wiring recommendations of equipment manufacturer. Every camera shall individually fused or be equipped with an isolation transformer.

- Testing Requirements -The Contractor shall perform all electrical and mechanical tests recommended by the equipment manufacturer. Final tests and inspection shall be held in the presence of the State representative. The Contractor shall supply personnel and required auxiliary equipment for this test without additional cost. Please allow five day "burn-in" time prior to preliminary testing.
- Training Requirements – The Contractor shall provide three (3), four (4) hour training sessions of operational instruction for State personnel. Training is to be "hands on" instruction held at facilities specified by the State.

## **DIGITAL VIDEO RECORDERS**

The digital video recording system shall be a network configured system comprised of digital recorder units designed to offer continuous recording onto an entirely digital medium (hard disk) loaded in the unit. Network capabilities shall be used to report maintenance and/or repair issues via an email system directly to the State. The use of a wireless network may be considered as an option. All DVR units must use a Windows XP operation platform. Windows Vista shall not be a consideration at this time. The use of external storage hard drives, DAT tapes, DV tapes, tape drives, CD ROM or DVD devices, or tape jukeboxes shall not be allowed as primary storage.

The Digital Recorder shall feature software utilizing a state of the art digital compression technique, such as a proprietary, Hybrid MPEG/Wavelet digital compression technique, to maximize storage capacity and minimize transmission usage. The Digital Recorder shall automatically start recording once power is applied to the unit.

Cameras shall be recorded at 4-5 frames per second (fps). The system shall also consider "smart monitoring" for off hour recording. The State may entertain increasing the fps requirement after proposal award.

The Digital Recording units shall be capable of recording for a period of approximately 120 days onto digital hard drive media at a resolution of 380 horizontal TV lines before it overwrites the data in a First In, First Out fashion. The hard drive shall have a minimum memory capacity to allow for the storage of the 120 days of video capture, and shall be expandable internally with additional hard drives as an optional feature for more storage time. The Digital Recording unit shall be capable of exporting stored video for archiving purposes.

Instant search for playback shall be by time, date, and camera. Upon playback, the Digital Recording unit shall offer zoom and magnification of 1/4x to 36x of recorded video images.

The Digital Recorder shall offer simultaneous channel live digital video display, a convenient and secure user interface with supplied a USB mouse, a rack mount case design, a ultra high resolution (1280x1024, 24 true bit color minimum or better) LCD digital video output, an Ethernet network port, 5- USB ports, and a SATA communication port. The Digital Recorder shall offer LAN gigabit ethernet access for live and recorded video.

All recorded video on the Digital Recorders shall be "Authenticated" using an algorithm calculated into frames of video to aid in the admissibility of the digital video into a court of law. "Watermarking" and "encryption" are not considered "Authentication" and shall not be considered as such.

For security reasons the video system shall be accessible only by state personnel. The unit shall include a locking front door to provide security and prevent unauthorized access to the unit. When maintenance or repair of a system is required, the Contractor shall notify the State.

## **SECURITY CAMERA AND DOME HOUSING UNIT**

### **Security Camera**

The fixed color cameras shall have a minimum 470 lines resolution and 0.02 fc (0.2 lux) sensitivity and have a 3-6mm varifocal auto iris lens. The camera shall be able to be mounted using indoor pendent configurations.

The camera position shall be capable of having a four direction adjustment, allowing for adjustment of pan, tilt, and vertical height in the dome and lens rotation (roll), for any angle of view required. The cameras shall be a 1/3-inch format camera.

### **Dome Housing Unit**

In the inspection lanes that are not environmentally controlled an Impact-Resistant smoked dome housing unit shall be used. The housing shall be an environmental camera enclosure offering weather protection to video camera/lens combinations up to 9.0inches (22.9cm) long. The unit shall be available with a sunshield that shall provide protection against UV radiation and corrosion. Housing shall also include equipment to prevent freeze-up in sub-freezing temperatures as well as to prevent moisture and condensation from accumulating in hot, humid temperatures. The housing shall be constructed of rust proof material and the window shall be Lexan polycarbonate. Waterproof seals and gaskets shall provide protection to the camera/lens assembly.

In the environmentally controlled areas an Impact-Resistant smoked lower dome shall be included. The in-ceiling camera dome's dimensions shall not exceed: height, 3.0 in. (76 mm) below the ceiling and 4.1 in. (104 mm) above the ceiling; total diameter, 7.94 in. (202 mm); dome diameter, 5.37 in. (136 mm). The weight shall be approximately 2.25 lb (1.02 kg).

## **MONITORS**

A monitor shall be provided for every video system. Monitors shall be a 17" color LCD monitor with a resolution of 1280x1040, 24 bit true color minimum or better. Digital connector shall be available.

## **MOUNTING RACKS**

The mounting systems for digital recorders and monitors shall be determined by the Contractor considering each facility's configuration. Each system shall be housed in an self contained environmentally controlled mounting enclosure.

The contractor shall hard-wire the main power supply to the mounting enclosure. The Contractor shall provide an Uninterrupted Power Supply (UPS) unit(s) that shall provide an orderly automatic shutdown during blackouts to all back-end equipment and camera systems.

Contractor shall be required to maintain, repair or replace any component of the video security camera system for the entire term of the contract.

The Contractor is responsible for the installation of all required electrical work related to this project.

All conduits if required by installation shall be installed between buildings and shall be a minimum of 2", in order to accommodate future camera additions.

Power supplies for cameras and housings shall be sized according to the power requirements necessary for operation of cameras and housings without impacting any other operational equipment.

Contract Closeout Information: Provide three copies of the following, once project has been completed:

- a. Operating and maintenance data.
- b. Copies of drawings indicating equipment locations and wiring diagrams.
- c. Complete installation and operating instructions.
- d. Complete servicing data.
- e. Copies of all component warranties and installation warranties.
- f. Copies of service contracts, costs, and on site response times shall be provided.

## **APPENDIX J – SPECIFICATIONS FOR UNDERCARRIAGE VIDEO INSPECTION SYSTEM**

### **Inspection Camera**

The color cameras shall have 460 TV lines resolution, 0.02 fc (0.2 lux) sensitivity, and a 3-6mm varifocal auto iris lens.

The camera position shall have a four direction adjustment, allowing for adjustment of pan, tilt, and vertical height in the dome and lens rotation (roll), for any angle of view required. The cameras shall be a 1/3-inch format camera.

These cameras do not need to be networked or able to record.

### **Undercarriage Housing**

The cameras housing shall be mounted in-ground and flush with the ground. The housing shall be a rugged camera enclosure offering weather, weight, and vehicle drive-over protection to video camera/lens combinations. The unit shall be available with a screening material that shall provide protection against UV radiation and corrosion. Housing shall also include equipment to prevent freeze-up in sub-freezing temperatures as well as to prevent moisture and condensation from accumulating in hot, humid temperatures. The housing shall be constructed of rust-proof material and the window shall be Lexan polycarbonate. Waterproof seals and gaskets shall provide protection to the camera/lens assembly.

### **Monitor**

A monitor shall be provided for each undercarriage inspection camera. The monitor shall be a 19" vis (vertical inches square) color, flat panel monitor. The resolution must be 1024x768 with a minimum of 24 bit true color. Digital connector shall be available. If required, any housing shall also include equipment to prevent freeze-up in sub-freezing temperatures as well as to prevent moisture and condensation from accumulating in hot, humid temperatures. Mounting of monitor depends upon facility structure.

## **APPENDIX K – SPECIFICATIONS FOR WEB CAM SNAPSHOT VIEW**

### **Camera**

The fixed camera shall be an Internet Protocol (IP) camera, viewable up to 30 fps at VGA resolution (640 x 480) or better and include autoiris varifocal lenses. The camera shall be available for outdoor fixed or pendant mounting configurations. Cameras shall refresh at three minute intervals.

### **Housing Unit**

The housing shall be a rugged enclosure offering weather protection to video camera/lens combinations up to 9.0inches (22.9cm) long. The unit shall be available with a sunshield that provides protection against UV radiation and corrosion. The housing shall also include a equipment to prevent freeze-up in sub-freezing temperatures as well as to prevent moisture and condensation from accumulating in hot, humid temperatures. The housing and sunshield shall be constructed of rust-proof material and the window shall be Lexan polycarbonate. Waterproof seals and gaskets shall provide protection to the camera/lens assembly.

## APPENDIX L - LEGACY DATA FORMATS

### L.1 Legacy VID Transaction Data

This appendix shows data sent to the VID in the legacy I/M system. The data elements were transmitted as text but were stored on the VID in a relational database and as such have different data types. Although this list shows acceptable values for each field, some records on the legacy VID have other values that must also be converted to the new VID.

There are no transaction records to be converted.

**Table L-1 – ASMSTDS.DAT/NEWSTDS.DAT**

| Number | Description         | Offset | Length | Data Type   | Format     |
|--------|---------------------|--------|--------|-------------|------------|
| 1      | ASMSTDS Row ID      | 0      | 5      | N           |            |
| 2      | Model Year          | 5      | 4      | N           | YYYY       |
| 3      | ETW                 | 9      | 4      | N           | 9999       |
| 4      | Vehicle Type        | 13     | 1      | A           | P/T        |
| 5      | Minimum GVWR        | 14     | 5      | N           |            |
| 6      | Maximum GVWR        | 19     | 5      | N           |            |
| 7      | Reserved            | 24     | 13     | -           |            |
| 8      | HC Cutpoint         | 37     | 4      | N           | 9999       |
| 9      | CO Cutpoint         | 41     | 5      | N           | 99.99      |
| 10     | NO Cutpoint         | 46     | 4      | N           | 9999       |
| 11     | Certification Class | 50     | 5      | A           |            |
| 12     | Date Last Updated   | 55     | 10     | A           | MM/DD/YYYY |
| 13     | CR/LF               | 65     | 2      | Cntr. Char. |            |
|        | Total Length        |        | 67     |             |            |

**Table L-2 – AUDIT.DAT (DMV Audit File)**

| Number | Description              | Offset | Length | Data Type   | Format     |
|--------|--------------------------|--------|--------|-------------|------------|
| 1      | Facility ID              | 0      | 9      | A           |            |
| 2      | Analyzer Number          | 9      | 8      | A           |            |
| 3      | Representative Id Number | 17     | 9      | A           |            |
| 4      | Date                     | 26     | 10     | A           | MM/DD/YYYY |
| 5      | Time                     | 36     | 8      | A           | HH:MM:SS   |
| 6      | CR/LF                    | 44     | 2      | Cntr. Char. |            |
|        | Total Length             |        | 46     |             |            |

**Table L-3 – AUDITOR.DAT**

| Number | Description                     | Offset | Length | Data Type   | Format     |
|--------|---------------------------------|--------|--------|-------------|------------|
| 1      | State Auditor License Number    | 0      | 9      | A           |            |
| 2      | Auditor Last Name               | 9      | 30     | A           |            |
| 3      | Auditor First Name              | 39     | 15     | A           |            |
| 4      | Auditor Middle Initial          | 54     | 1      | A           |            |
| 5      | Access Code                     | 55     | 5      | N           | 99999      |
| 6      | Auditor License Expiration Date | 60     | 10     | A           | MM/DD/YYYY |
| 7      | Reserved                        | 70     | 20     |             |            |
| 8      | CR/LF                           | 90     | 2      | Cntr. Char. |            |
|        | Total Length                    |        | 92     |             |            |



**Table L-4 – CAL.DAT**

| Number | Description                        | Offset | Length | Data Type | Format     |
|--------|------------------------------------|--------|--------|-----------|------------|
| 1      | Analyzer Number                    | 0      | 8      | N         |            |
| 2      | Bench Serial Number                | 8      | 12     | A         |            |
| 3      | Gas Cap Serial Number              | 20     | 12     | A         |            |
| 4      | Dyno Serial Number                 | 32     | 12     | A         |            |
| 5      | NOx Cell Serial Number             | 44     | 8      | A         |            |
| 6      | Facility ID                        | 52     | 9      | A         |            |
| 7      | Emissions Inspector License Number | 61     | 9      | A         |            |
| 8      | Calibration Date                   | 70     | 10     | A         | MM/DD/YYYY |
| 9      | Dynamometer Warm-up Time           | 80     | 8      | A         | HH:MM:SS   |
| 10     | HC Zero Pre-Cal Reading            | 88     | 5      | N         | 99999      |
| 11     | HC Span Pre-Cal Reading            | 93     | 5      | N         | 99999      |
| 12     | HC Mid Span Pre-Cal Reading        | 98     | 5      | N         | 99999      |
| 13     | HC Span Gas                        | 103    | 5      | N         | 99999      |
| 14     | HC Zero Reading                    | 108    | 5      | N         | 99999      |
| 15     | HC Zero Results                    | 113    | 1      | A         | P/F        |
| 16     | HC Span Reading                    | 114    | 5      | N         | 99999      |
| 17     | HC Span Results                    | 119    | 1      | A         | P/F        |
| 18     | HC Mid Span Gas                    | 120    | 5      | N         | 99999      |
| 19     | HC Mid Span Reading                | 125    | 5      | N         | 99999      |
| 20     | HC Mid Span Results                | 130    | 1      | A         | P/F        |
| 21     | CO Zero Pre-Cal Reading            | 131    | 6      | N         | 999.99     |
| 22     | CO Span Pre-Cal Reading            | 137    | 6      | N         | 999.99     |
| 23     | CO Mid Span Pre-Cal Reading        | 143    | 6      | N         | 999.99     |
| 24     | CO Span Gas                        | 149    | 6      | N         | 999.99     |
| 25     | CO Zero Reading                    | 155    | 6      | N         | 999.99     |
| 26     | CO Zero Results                    | 161    | 1      | A         | P/F        |
| 27     | CO Span Reading                    | 162    | 6      | N         | 999.99     |
| 28     | CO Span Results                    | 168    | 1      | A         | P/F        |
| 29     | CO Mid Span Gas                    | 169    | 6      | N         | 999.99     |
| 30     | CO Mid Span Reading                | 175    | 6      | N         | 999.99     |
| 31     | CO Mid Span Results                | 181    | 1      | A         | P/F        |
| 32     | NO Zero Pre-Cal Reading            | 182    | 5      | N         | 99999      |
| 33     | NO Span Pre-Cal Reading            | 187    | 5      | N         | 99999      |
| 34     | NO Mid Span Pre-Cal Reading        | 192    | 5      | N         | 99999      |
| 35     | NO Span Gas                        | 197    | 5      | N         | 99999      |
| 36     | NO Zero Reading                    | 202    | 5      | N         | 99999      |
| 37     | NO Zero Results                    | 207    | 1      | A         | P/F        |
| 38     | NO Span Reading                    | 208    | 5      | N         | 99999      |
| 39     | NO Span Results                    | 213    | 1      | A         | P/F        |
| 40     | NO Mid Span Gas                    | 214    | 5      | N         | 99999      |
| 41     | NO Mid Span Reading                | 219    | 5      | N         | 99999      |
| 42     | NO Mid Span Results                | 224    | 1      | A         | P/F        |
| 43     | Low PEF Reading                    | 225    | 4      | N         | 9999       |
| 44     | High PEF Reading                   | 229    | 4      | N         | 9999       |
| 45     | Leak Check                         | 233    | 1      | A         | P/F        |
| 46     | Dyno Calibration Date              | 234    | 10     | A         | MM/DD/YYYY |
| 47     | Roll Diameter (inches)             | 244    | 4      | N         | 99.9       |
| 48     | Base Inertia                       | 248    | 4      | N         | 9999       |
| 49     | Dead Weight Test                   | 252    | 4      | N         | 9999       |
| 50     | Dead Weight Results                | 256    | 1      | A         | P/F        |
| 51     | Dyno Warm Up                       | 257    | 1      | A         | P/ F       |
| 52     | Reserved                           | 258    | 20     | -         |            |
| 53     | Coast Down HP @ 15 mph             | 278    | 4      | N         | 99.9       |
| 54     | Coast Down Time @ 15 mph           | 282    | 3      | N         | 999        |
| 55     | Coast Down HP @ 15 mph Results     | 285    | 1      | A         | P/F        |
| 56     | Calculated Parasitic Loss (HP)     | 286    | 4      | N         | 9.99       |
| 57     | Gas Cap Calibration                | 290    | 1      | A         | P/ F       |

| Number | Description               | Offset | Length | Data Type   | Format   |
|--------|---------------------------|--------|--------|-------------|----------|
| 58     | Pressure Test Calibration | 291    | 1      | A           | P/ F     |
| 59     | Calibration Start Time    | 292    | 8      | A           | HH:MM:SS |
| 60     | Calibration End Time      | 300    | 8      | A           | HH:MM:SS |
| 61     | Calibration Result        | 308    | 1      | A           | P/ F     |
| 62     | Reserved                  | 309    | 20     | -           |          |
| 63     | CR/LF                     | 329    | 2      | Cntr. Char. |          |
|        | Total Length              |        | 331    |             |          |

**Table L-5 – CLASS.DAT**

| Number | Description                     | Offset | Length | Data Type   | Format     |
|--------|---------------------------------|--------|--------|-------------|------------|
| 1      | Certification Class             | 0      | 5      | A           |            |
| 2      | Certification Class Description | 5      | 40     | A           |            |
| 3      | Cert Class for VRT Lookup       | 45     | 5      | A           |            |
| 4      | Reserved                        | 50     | 15     | -           |            |
| 5      | Date Last Updated               | 65     | 10     | A           | MM/DD/YYYY |
| 6      | CR/LF                           | 75     | 2      | Cntr. Char. |            |
|        | Total Length                    |        | 77     |             |            |

**Table L-6 – Certification Class Descriptions**

| Cert. Class | Certification Class Description   | Cert. Class for VRT Lookup |
|-------------|-----------------------------------|----------------------------|
| TIER0       | Federal Tier 0 vehicle            | blanks                     |
| TIER1       | Federal Tier 1 vehicle            | blanks                     |
| TIER2       | Federal Tier 2 vehicle            | blanks                     |
| NLEV        | National Low Emission Vehicle     | blanks                     |
| TLEV        | Transitional Low Emission Vehicle | blanks                     |
| ILEV        | Inherently Low Emission Vehicle   | blanks                     |
| LEV         | Low Emission Vehicle              | blanks                     |
| ULEV        | Ultra Low Emission Vehicle        | blanks                     |
| SULEV       | Super Ultra Low Emission Vehicle  | blanks                     |
| ZEV         | Zero Emission Vehicle             | blanks                     |
| HEV         | Hybrid Electric Vehicle           | blanks                     |

**Table L-7 – DEFPARM.DAT**

| Number | Description            | Offset | Length | Data Type   | Format            |
|--------|------------------------|--------|--------|-------------|-------------------|
| 1      | Body Style             | 0      | 1      | N           | 1-6               |
| 2      | Cylinders              | 1      | 1      | N           | 1-9/ use 9 for >8 |
| 3      | Reserved               | 2      | 8      | -           |                   |
| 4      | Total HP Rating - 5015 | 10     | 4      | N           | 99.9              |
| 5      | ETW                    | 14     | 4      | N           | 9999              |
| 6      | CR/LF                  | 18     | 2      | Cntr. Char. |                   |
|        | Total Length           |        | 20     |             |                   |

**Table L-8 – EIS.DAT and EIS.HST**

| Number | Description                           | Offset | Length | Data Type | Format |
|--------|---------------------------------------|--------|--------|-----------|--------|
| 1      | Test Record Number                    | 0      | 6      | N         |        |
| 2      | Facility ID                           | 6      | 9      | A         |        |
| 3      | Analyzer Number                       | 15     | 8      | A         |        |
| 4      | Software Version                      | 23     | 4      | N         | 9.99   |
| 5      | Emissions Inspector License Number    | 27     | 9      | A         |        |
| 6      | Inspector License Number Input Source | 36     | 1      | A         | B or M |
| 7      | Reserved                              | 37     | 10     | -         |        |
| 8      | VIN                                   | 47     | 19     | A         |        |

| Number | Description                                    | Offset | Length | Data Type | Format                                 |
|--------|------------------------------------------------|--------|--------|-----------|----------------------------------------|
| 9      | VIN Input Source                               | 66     | 1      | A         | B/ M/ V/ S                             |
| 10     | License Plate Number                           | 67     | 10     | A         |                                        |
| 11     | License Plate Jurisdiction                     | 77     | 2      | A         |                                        |
| 12     | License Plate Source                           | 79     | 1      | A         | B or M                                 |
| 13     | Vehicle Model Year                             | 80     | 4      | N         | YYYY                                   |
| 14     | Vehicle Make                                   | 84     | 17     | A         |                                        |
| 15     | Vehicle Model                                  | 101    | 23     | A         |                                        |
| 16     | Vehicle Type                                   | 124    | 1      | A         | P/T/H                                  |
| 17     | Body Style                                     | 125    | 1      | N         | 1 - 7                                  |
| 18     | Certification Class                            | 126    | 5      | A         |                                        |
| 19     | Gross Vehicle Weight Rating (GVWR)             | 131    | 5      | N         |                                        |
| 20     | Equivalent Test Weight - ASM - ETW             | 136    | 4      | N         | 9999                                   |
| 21     | ETW Input Source                               | 140    | 1      | A         | M/V/D                                  |
| 22     | Number of Cylinders                            | 141    | 2      | A         | 0-16 or R                              |
| 23     | Engine Size                                    | 143    | 4      | N         | 00.0 to 99.9 liters                    |
| 24     | Transmission Type                              | 147    | 1      | A         | A/M                                    |
| 25     | Dual Exhaust                                   | 148    | 1      | A         | Y/N                                    |
| 26     | Fuel Code                                      | 149    | 4      | A         |                                        |
| 27     | VID Vehicle Identification                     | 153    | 11     | A         |                                        |
| 28     | VRT Record Number                              | 164    | 5      | N         |                                        |
| 29     | ASMSTDS Record Number                          | 169    | 5      | N         |                                        |
| 30     | Reason for non-dyno testable                   | 174    | 1      | N         | 1,2,3 or 4                             |
| 31     | Dyno Testable                                  | 175    | 1      | A         | Y/N                                    |
| 32     | Current Odometer Reading                       | 176    | 7      | N         |                                        |
| 33     | Previous Cycle - Initial Odometer Reading      | 183    | 7      | N         |                                        |
| 34     | Previous Cycle - Initial Test Date             | 190    | 10     | A         | MM/DD/YYYY                             |
| 35a    | VRT Version Date                               | 200    | 10     | A         | MM/DD/YYYY                             |
| 35b    | ASMSTDS Version Date                           | 210    | 10     | A         | MM/DD/YYYY                             |
| 35c    | Reserved                                       | 220    | 29     | -         |                                        |
| 36     | Test Type                                      | 249    | 1      | A         | I or R                                 |
| 37     | Test Date                                      | 250    | 10     | A         | MM/DD/YYYY                             |
| 38     | Test Start Time                                | 260    | 8      | A         | HH:MM:SS                               |
| 39     | Test End Time                                  | 268    | 8      | A         | HH:MM:SS                               |
| 40     | Emission Test Type (Performed)                 | 276    | 1      | A         | (A)SM/(I)dle/(2)500/<br>(N)one/(O)BDII |
| 41     | Test Sequence Number Performed                 | 277    | 1      | N         |                                        |
| 42     | Low Mileage exemption                          | 278    | 1      | A         | Y/N                                    |
| 43     | Tire Drying                                    | 279    | 1      | A         | Y/N                                    |
| 44     | TIN Number                                     | 280    | 8      | A         |                                        |
| 45     | Reserved                                       | 288    | 20     | -         |                                        |
| 46     | Relative Humidity                              | 308    | 4      | N         | 99.9                                   |
| 47     | Ambient Temperature                            | 312    | 6      | N         | 999.99                                 |
| 48     | Barometric Pressure                            | 318    | 5      | N         | 99.99                                  |
| 49     | Humidity Correction Factor                     | 323    | 4      | N         | 9.99                                   |
| 50     | Dilution Correction Factor - Idle Speed        | 327    | 4      | N         | 9.99                                   |
| 51     | Dilution Correction Factor - Idle - 2nd Chance | 331    | 4      | N         | 9.99                                   |
| 52     | Dilution Correction Factor - 2500 RPM Speed    | 335    | 4      | N         | 9.99                                   |
| 53     | Dilution Correction Factor - 2500 2nd Chance   | 339    | 4      | N         | 9.99                                   |
| 54     | Dilution Correction Factor - ASM5015           | 343    | 4      | N         | 9.99                                   |
| 55     | Reserved                                       | 347    | 11     | -         |                                        |
| 56     | Gas Cap - Adapter Available                    | 358    | 1      | A         | Y/N                                    |
| 57     | Gas Cap Replaced During Emissions Test         | 359    | 1      | A         | Y/N                                    |
| 58     | Overall Gas Cap Results                        | 360    | 1      | A         | P/F/Z/N                                |
| 59     | Reserved                                       | 361    | 10     | -         |                                        |
| 60     | HC Cutpoint - Idle Test                        | 371    | 4      | N         | 9999                                   |
| 61     | CO Cutpoint - Idle Test                        | 375    | 5      | N         | 99.99                                  |
| 62     | HC Cutpoint - 2500 RPM Test                    | 380    | 4      | N         | 9999                                   |
| 63     | CO Cutpoint - 2500 RPM Test                    | 384    | 5      | N         | 99.99                                  |

| Number | Description                             | Offset | Length | Data Type | Format    |
|--------|-----------------------------------------|--------|--------|-----------|-----------|
| 64     | HC Cutpoint - ASM5015                   | 389    | 4      | N         | 9999      |
| 65     | CO Cutpoint - ASM5015                   | 393    | 5      | N         | 99.99     |
| 66     | NO Cutpoint - ASM5015                   | 398    | 4      | N         | 9999      |
| 67     | Reserved                                | 402    | 10     | -         |           |
| 68     | ASM Restart Counter                     | 412    | 1      | N         | 0-9       |
| 69     | Acceleration Violations - ASM5015       | 413    | 1      | N         | 9         |
| 70     | HP ASM5015                              | 414    | 4      | N         | 99.9      |
| 71     | Dilution Corrected HC Result - ASM5015  | 418    | 4      | N         | 9999      |
| 72     | Dilution Corrected CO Result - ASM5015  | 422    | 5      | N         | 99.99     |
| 73     | CO2 Result - ASM5015                    | 427    | 4      | N         | 99.9      |
| 74     | Dilution Corrected NO Result - ASM5015  | 431    | 4      | N         | 9999      |
| 75     | O2 Result - ASM5015                     | 435    | 4      | N         | 99.9      |
| 76     | RPM Reading - ASM5015                   | 439    | 4      | N         | 9999      |
| 77     | ASM5015 Final Result                    | 443    | 1      | A         | P/F/Z/N   |
| 78     | Reserved                                | 444    | 20     | -         |           |
| 79     | Reserved                                | 464    | 4      | -         |           |
| 80     | RPM – 2500 RPM                          | 468    | 4      | N         | 9999      |
| 81     | Dilution Corrected HC - 2500 RPM        | 472    | 4      | N         | 9999      |
| 82     | Dilution Corrected CO - 2500 RPM        | 476    | 5      | N         | 99.99     |
| 83     | CO2 - 2500 RPM                          | 481    | 4      | N         | 99.9      |
| 84     | 2500 RPM Final Results                  | 485    | 1      | A         | P/F/Z/N   |
| 85     | RPM – 2500 RPM - Second Chance          | 486    | 4      | N         | 9999      |
| 86     | Dilution Corrected HC - 2500 RPM 2nd Ch | 490    | 4      | N         | 9999      |
| 87     | Dilution Corrected CO - 2500 RPM 2nd Ch | 494    | 5      | N         | 99.99     |
| 88     | CO2 - 2500 RPM 2nd Chance               | 499    | 4      | N         | 99.9      |
| 89     | 2500 RPM - Second Chance Final Results  | 503    | 1      | A         | P/F/Z/N   |
| 90     | Reserved                                | 504    | 20     | -         |           |
| 91     | RPM - Idle                              | 524    | 4      | N         | 9999      |
| 92     | Dilution Corrected HC - Idle            | 528    | 4      | N         | 9999      |
| 93     | Dilution Corrected CO - Idle            | 532    | 5      | N         | 99.99     |
| 94     | CO2 - Idle                              | 537    | 4      | N         | 99.9      |
| 95     | Idle Test Final Results                 | 541    | 1      | A         | P/F/Z/N   |
| 96     | RPM - Idle Speed - Second Chance        | 542    | 4      | N         | 9999      |
| 97     | Dilution Corrected HC - Idle 2nd Chance | 546    | 4      | N         | 9999      |
| 98     | Dilution Corrected CO - Idle 2nd Chance | 550    | 5      | N         | 99.99     |
| 99     | CO2 - Idle 2nd Chance                   | 555    | 4      | N         | 99.9      |
| 100    | Idle Test - Second Chance Final Results | 559    | 1      | A         | P/F/Z/N   |
| 101A   | Reserved                                | 560    | 1      | -         |           |
| 101B   | OBD Catalyst Retest                     | 561    | 1      | N         | 1-3       |
| 101C   | Reserved                                | 562    | 1      | -         |           |
| 101D   | OBD VIN                                 | 563    | 17     | A         |           |
| 102    | Exhaust Emission Test Result            | 580    | 1      | A         | P/F/W/Z/N |
| 103    | Visible Smoke Test Result               | 581    | 1      | A         | P/F/Z/N   |
| 104    | Fuel System Pressure Test Result        | 582    | 1      | A         | P/F/Z/N   |
| 105    | ---                                     | 583    | 0      | -         | -         |
| 106    | Catalytic Converter Inspection Result   | 583    | 1      | A         | P/F/Z/N   |
| 107A   | OBD Model Year Retest                   | 584    | 4      | N         | 9999      |
| 107B   | Misfire Monitor Result                  | 588    | 1      | A         | R/X/U     |
| 107C   | Fuel System Monitor Result              | 589    | 1      | A         | R/X/U     |
| 107D   | Comprehensive Component Result          | 590    | 1      | A         | R/X/U     |
| 107E   | Catalyst Monitor Result                 | 591    | 1      | A         | R/X/U     |
| 107F   | Heated Catalyst Monitor Result          | 592    | 1      | A         | R/X/U     |
| 107G   | Evap. System Monitor Result             | 593    | 1      | A         | R/X/U     |
| 107H   | Secondary Air System Monitor Result     | 594    | 1      | A         | R/X/U     |
| 107I   | Air Conditioning System Monitor Result  | 595    | 1      | A         | R/X/U     |
| 107J   | Oxygen Sensor Monitor Result            | 596    | 1      | A         | R/X/U     |
| 107K   | Oxygen Sensor Heater Monitor Result     | 597    | 1      | A         | R/X/U     |
| 107L   | EGR System Monitor Result               | 598    | 1      | A         | R/X/U     |

| Number | Description                              | Offset | Length | Data Type | Format    |
|--------|------------------------------------------|--------|--------|-----------|-----------|
| 107M   | Total Number of Unset Readiness Monitors | 599    | 2      | N         | 99        |
| 107N   | Readiness Status                         | 601    | 1      | A         | R/X       |
| 107O   | Malfunction Indicator Light On           | 602    | 1      | A         | P/F       |
| 107P   | Reserved                                 | 603    | 1      | -         |           |
| 108    | Overall Emission Result                  | 604    | 1      | A         | P/F/Z     |
| 109A   | OBD Connector Result                     | 605    | 1      | A         | P/D/M/O   |
| 109B   | Bulb Check Result                        | 606    | 1      | A         | P/F       |
| 109C   | Communications Result                    | 607    | 1      | A         | P/F/E     |
| 109D   | MIL Command Status                       | 608    | 1      | A         | P/F       |
| 109E   | DTC1                                     | 609    | 5      | A         |           |
| 109F   | DTC2                                     | 614    | 5      | A         |           |
| 109G   | DTC3                                     | 619    | 5      | A         |           |
| 109H   | DTC4                                     | 624    | 5      | A         |           |
| 109I   | DTC5                                     | 629    | 5      | A         |           |
| 109J   | Total Number of DTCs Stored              | 634    | 2      | N         | 99        |
| 109K   | PID Count                                | 636    | 2      | N         | 99        |
| 109L   | PCM Module ID                            | 638    | 2      | N         | 99        |
| 109M   | Overall OBD Result                       | 640    | 1      | A         | P/F/Z/X   |
| 109N   | OBD Bypass                               | 641    | 1      | A         | Y/N       |
| 109O   | Overall OBD/Exhaust Emission Result      | 642    | 1      | A         | P/F/Z     |
| 109P   | Catalyst DTC Present                     | 643    | 1      | A         | Y/N       |
| 110    | Credentials Result                       | 644    | 1      | A         | P/F/A/Z   |
| 111    | Steering and Suspension Result           | 645    | 1      | A         | P/F/A/4/Z |
| 112    | Safety Equipment Result                  | 646    | 1      | A         | P/F/A/4/Z |
| 113    | Lights Result                            | 647    | 1      | A         | P/F/A/4/Z |
| 114    | Brakes Result                            | 648    | 1      | A         | P/F/A/4/Z |
| 115    | Exhaust System Result                    | 649    | 1      | A         | P/F/A/4/Z |
| 116    | Miscellaneous Items Result               | 650    | 1      | A         | P/F/A/4/Z |
| 117    | Miscellaneous Comment                    | 651    | 50     | A         |           |
| 118    | Miscellaneous Comment Result             | 701    | 1      | A         | P/F/A/4/Z |
| 119    | Overall Safety Result                    | 702    | 1      | A         | P/F/Z/4   |
| 120    | Overall Test Result                      | 703    | 1      | A         | P/F       |
| 121    | Reserved for CIF specification           | 704    | 20     | -         |           |
| 122    | RPM Bypass                               | 724    | 1      | A         | Y/N       |
| 123    | Test Fee                                 | 725    | 6      | N         | 999.99    |
| 124    | Sticker Number                           | 731    | 8      | A         |           |
| 125    | Certificate Number                       | 739    | 21     | A         |           |
| 126    | Sticker Date Overridden                  | 760    | 1      | A         | Y/N       |
| 127    | Reserved for CIF specification           | 761    | 19     | -         |           |
| 128    | Safety Condition 1                       | 780    | 4      | N         | 9999      |
| 129    | Safety Condition 2                       | 784    | 4      | N         |           |
| 130    | Safety Condition 3                       | 788    | 4      | N         |           |
| 131    | Safety Condition 4                       | 792    | 4      | N         |           |
| 132    | Safety Condition 5                       | 796    | 4      | N         |           |
| 133    | Safety Condition 6                       | 800    | 4      | N         |           |
| 134    | Safety Condition 7                       | 804    | 4      | N         |           |
| 135    | Safety Condition 8                       | 808    | 4      | N         |           |
| 136    | Safety Condition 9                       | 812    | 4      | N         |           |
| 137    | Safety Condition 10                      | 816    | 4      | N         |           |
| 138    | Safety Condition 11                      | 820    | 4      | N         |           |
| 139    | Safety Condition 12                      | 824    | 4      | N         |           |
| 140    | Safety Condition 13                      | 828    | 4      | N         |           |
| 141    | Safety Condition 14                      | 832    | 4      | N         |           |
| 142    | Safety Condition 15                      | 836    | 4      | N         |           |
| 143    | Safety Condition 16                      | 840    | 4      | N         |           |
| 144    | Safety Condition 17                      | 844    | 4      | N         |           |
| 145    | Safety Condition 18                      | 848    | 4      | N         |           |
| 146    | Safety Condition 19                      | 852    | 4      | N         |           |

| Number | Description                | Offset | Length | Data Type   | Format     |
|--------|----------------------------|--------|--------|-------------|------------|
| 147    | Safety Condition 20        | 856    | 4      | N           |            |
| 148    | Old Sticker Date           | 860    | 10     | A           | MM/DD/YYYY |
| 149    | Reg Issue Date             | 870    | 10     | A           | MM/DD/YYYY |
| 150    | Inspection Expiration Date | 880    | 10     | A           | MM/DD/YYYY |
| 151    | Inspection Compliance Date | 890    | 10     | A           | MM/DD/YYYY |
| 152    | Inspection Allowance Date  | 900    | 10     | A           | MM/DD/YYYY |
| 153    | Change ICD Flag            | 910    | 1      | A           | N/Y/T/R/F  |
| 154    | Sticker Date - Calculated  | 911    | 10     | A           | MM/DD/YYYY |
| 155    | Sticker Date - Actual      | 921    | 10     | A           | MM/DD/YYYY |
| 156    | CR/LF                      | 931    | 2      | Cntr. Char. |            |
|        | Total Length               |        | 933    |             |            |

**Table L-9 – FUEL.DAT**

| Number | Description           | Offset | Length | Data Type   | Format     |
|--------|-----------------------|--------|--------|-------------|------------|
| 1      | Fuel Code             | 0      | 4      | A           |            |
| 2      | Fuel Code Description | 4      | 30     | A           |            |
| 3      | Date Last Updated     | 34     | 10     | A           | MM/DD/YYYY |
| 4      | CR/LF                 | 44     | 2      | Cntr. Char. |            |
|        | Total Length          |        | 46     |             |            |

**Table L-10 – FUEL CODE DESCRIPTION**

| Fuel Code | Fuel Code Description            |
|-----------|----------------------------------|
| GCNG      | GASOLINE / COMPRESSED NAT. GAS   |
| GASO      | GASOLINE                         |
| GLPG      | GASOLINE / LIQUEFIED PETR. GAS   |
| GPRO      | GASOLINE / PROPANE               |
| GLNG      | GASOLINE / LIQUEFIED NATURAL GAS |
| GHYD      | GASOLINE / HYDROGEN              |
| ELEG      | ELECTRIC / GASOLINE              |
| HYDR      | HYDROGEN                         |
| PROP      | PROPANE                          |
| CNGA      | COMPRESSED NATURAL GAS           |
| METH      | METHANOL                         |
| GMET      | GASOLINE / METHANOL (M85)        |
| DIES      | DIESEL                           |
| ELED      | ELECTRIC / DIESEL                |
| ELEC      | ELECTRIC                         |

NOTE: The Fuel Code for vehicles that can be operated on Gasoline must begin with the letter "G". All other Fuel Codes must begin with a letter other than "G".

**Table L-11 – INCOMPLT.DAT and INCOMPLT.HST**

| Number | Description                               | Offset | Length | Data Type   | Format     |
|--------|-------------------------------------------|--------|--------|-------------|------------|
| 1      | Facility ID                               | 0      | 9      | A           |            |
| 2      | Analyzer Number                           | 9      | 8      | A           |            |
| 3      | Emissions Inspector License Number        | 17     | 9      | A           |            |
| 4      | Month                                     | 26     | 2      | N           | MM (01-12) |
| 5      | Year                                      | 28     | 4      | N           | YYYY       |
| 6      | Tests Started                             | 32     | 3      | N           | 999        |
| 7      | Tests Aborted prior to emissions sampling | 35     | 3      | N           | 999        |
| 8      | Tests Aborted during/after sampling       | 38     | 3      | N           | 999        |
| 9      | Tests Completed                           | 41     | 3      | N           | 999        |
| 10     | CR/LF                                     | 44     | 2      | Cntr. Char. |            |
|        | Total Length                              |        | 46     |             |            |

The INCOMPLT.DAT file shall contain one record per month per emissions inspector. Each time an inspection is initiated, one of the test condition columns (started, aborted or completed) must be incremented. A new record shall be created at the start of an inspection if no record exists for the current inspector, month and year, otherwise the appropriate test condition column shall be incremented in the existing record for the inspector, month and year.

**Table L-12 – INSPCOND.DAT**

| Number | Description                 | Offset | Length | Data Type   | Format     |
|--------|-----------------------------|--------|--------|-------------|------------|
| 1      | Inspection Item Code        | 0      | 3      | A           |            |
| 2      | Display Sequence (not used) | 3      | 3      | N           | 999        |
| 3      | Active Switch (not used)    | 6      | 1      | A           | Y/N        |
| 4      | Condition Number            | 7      | 4      | N           | 9999       |
| 5      | Condition Description       | 11     | 50     | A           |            |
| 6      | Condition Result            | 61     | 1      | A           | F/A/4      |
| 7      | Reserved                    | 62     | 12     | -           |            |
| 8      | Date Last Updated           | 74     | 10     | 84          | MM/DD/YYYY |
| 9      | CR/LF                       | 84     | 2      | Cntr. Char. |            |
|        | Total Length                |        | 86     |             |            |

The VID shall pass only active InspCond records to the analyzer in display sequence. Display Sequence and Active Switch shall not be used by the analyzer.

**Table L-13 – LOCKOUT.DAT**

| Number | Description                            | Offset | Length | Data Type   | Format |
|--------|----------------------------------------|--------|--------|-------------|--------|
| 1      | State Lockout                          | 0      | 1      | A           | Y/N    |
| 2      | Spare                                  | 1      | 1      | -           |        |
| 3      | Cabinet Tamper Lockout                 | 2      | 1      | A           | Y/N    |
| 4      | State disk drive tamper lockout        | 3      | 1      | A           | Y/N    |
| 5      | PIF License Suspended                  | 4      | 1      | A           | Y/N    |
| 6      | PIF License Revoked                    | 5      | 1      | A           | Y/N    |
| 7      | PIF License Expired                    | 6      | 1      | A           | Y/N    |
| 8      | Failure to pay for communications      | 7      | 1      | A           | Y/N    |
| 9      | No Contact Limit Tests / Days Exceeded | 8      | 1      | A           | Y/N    |
| 10     | VRT Corruption Error                   | 9      | 1      | A           | Y/N    |
| 11     | ASMSTDS.DAT Corruption Error           | 10     | 1      | A           | Y/N    |
| 12     | OBDVRT Corruption                      | 11     | 1      | A           | Y/N    |
| 13     | Reserved                               | 12     | 9      | -           |        |
| 14     | CR/LF                                  | 21     | 2      | Cntr. Char. |        |
|        | Total Length                           |        | 23     |             |        |

**Table L-14 – OBDVRT.DAT**

| Number | Description                       | Offset | Length | Data Type   | Format     |
|--------|-----------------------------------|--------|--------|-------------|------------|
| 1      | Vehicle Model Year                | 5      | 4      | N           | YYYY       |
| 2      | Vehicle Make                      | 9      | 17     | A           |            |
| 3      | Vehicle Model                     | 26     | 23     | A           |            |
| 4      | Excluded from requiring readiness | 49     | 1      | A           | Y/N        |
| 5      | Excluded from OBDII testing       | 50     | 1      | A           | Y/N        |
| 6      | Reserved                          | 51     | 12     | -           |            |
| 7      | Date Last Updated                 | 63     | 10     | A           | MM/DD/YYYY |
| 8      | CR/LF                             | 73     | 2      | Cntr. Char. |            |
|        | Total Length                      |        | 75     |             |            |

**Table L-15 – REPAIR.DAT**

| Number | Description                                | Offset | Length | Data Type   | Format                   |
|--------|--------------------------------------------|--------|--------|-------------|--------------------------|
| 1      | Repair Record Number                       | 0      | 6      | A           |                          |
| 2      | Facility ID                                | 6      | 9      | A           |                          |
| 3      | Analyzer Number                            | 15     | 8      | A           |                          |
| 4      | Entry Date                                 | 23     | 10     | A           | MM/DD/YYYY               |
| 5      | Entry Time                                 | 33     | 8      | A           | HH:MM:SS                 |
| 6      | Emissions Inspector License Number         | 41     | 9      | A           |                          |
| 7      | VIN                                        | 50     | 19     | A           |                          |
| 8      | License Plate Number                       | 69     | 10     | A           |                          |
| 9      | Reserved                                   | 76     | 7      | -           |                          |
| 10     | Repair Date                                | 86     | 10     | A           | MM/DD/YYYY               |
| 11     | Repair Codes                               | 96     | 26     | A           | each byte: R/W/E/T/blank |
| 12     | Reserved                                   | 122    | 15     | -           |                          |
| 13     | Emission Repair Technician Number          | 137    | 9      | A           | ERTNNNNNNN               |
| 14     | Registered Emission Repair Facility Number | 146    | 9      | A           | ERFNNNNNNN               |
| 15     | Parts Total - Dollars                      | 155    | 4      | N           | 9999                     |
| 16     | Labor Total - Dollars                      | 159    | 4      | N           | 9999                     |
| 17     | Work Order number                          | 163    | 8      | A           |                          |
| 18     | Reserved                                   | 171    | 12     | -           |                          |
| 19     | CR/LF                                      | 183    | 2      | Cntr. Char. |                          |
|        | Total Length                               |        | 185    |             |                          |

**Table L-16 – SPD2.DAT**

| Number | Description       | Offset | Length | Data Type   | Format                 |
|--------|-------------------|--------|--------|-------------|------------------------|
| 1      | GVWR <= 8500 lbs. | 0      | 1      | A           | Y, N                   |
| 2      | Test Type         | 1      | 1      | A           | Idle(1) or 2500 RPM(2) |
| 3      | Lower Model Year  | 2      | 4      | A           | YYYY                   |
| 4      | Upper Model Year  | 6      | 4      | A           | YYYY                   |
| 5      | HC Standard (ppm) | 10     | 4      | N           | 9999                   |
| 6      | CO Standard (CO%) | 14     | 5      | N           | 99.99                  |
| 7      | Record Number     | 19     | 5      | N           | 99999                  |
| 8      | Date Last Updated | 24     | 10     | A           | MM/DD/YYYY             |
| 9      | CR/LF             | 34     | 2      | Cntr. Char. |                        |
|        | Total Length      |        | 36     |             |                        |

**Table L-17 – STATION.DAT**

| Number | Description       | Offset | Length | Data Type | Format         |
|--------|-------------------|--------|--------|-----------|----------------|
| 1      | PIF Number        | 0      | 9      | A         |                |
| 2      | PIF Name          | 9      | 50     | A         |                |
| 3      | PIF Address 1     | 59     | 50     | A         |                |
| 4      | PIF Address 2     | 109    | 35     | A         |                |
| 5      | PIF City          | 144    | 35     | A         |                |
| 6      | PIF State         | 179    | 2      | A         |                |
| 7      | PIF ZIP           | 181    | 10     | A         | 99999-9999     |
| 8      | PIF Phone         | 191    | 14     | A         | (999) 999-9999 |
| 9      | ERF Number        | 205    | 9      | A         |                |
| 10     | Date Last Updated | 214    | 10     | A         | MM/DD/YYYY     |
| 11     | Reserved          | 224    | 20     |           |                |
| 12     | CR/LF             | 244    | 2      | Cntr Char |                |
|        | Total Length      |        | 246    |           |                |



**Table L-18 – SYSTEM.DAT**

| Number | Description                             | Offset | Length | Data Type   | Format     | Default    |
|--------|-----------------------------------------|--------|--------|-------------|------------|------------|
| 1      | Second-by-second data collection switch | 0      | 1      | A           | Y/N        | N          |
| 2      | Acceleration Excursion Limit            | 1      | 3      | N           | n.n        | 0.6        |
| 3      | Sticker Date Confirmation Flag          | 4      | 1      | A           | Y/N        | Y          |
| 4      | Full System Pressure Test               | 5      | 1      | A           | Y/N        | N          |
| 5      | Purge Test                              | 6      | 1      | A           | Y/N        | N          |
| 6      | Allow OBDII Bypass                      | 7      | 1      | A           | Y/N        | Y          |
| 7      | Reserved                                | 8      | 1      | -           |            |            |
| 8      | Reserved                                | 9      | 1      | -           |            |            |
| 9      | Copy NEWSTDS Date                       | 10     | 10     | A           | MM/DD/YYYY | 01/01/2002 |
| 10     | Mandatory ASM Date                      | 20     | 10     | A           | MM/DD/YYYY | 12/01/1999 |
| 11A    | First OBDII Model Year                  | 30     | 4      | N           | 9999       | 1996       |
| 11B    | OBDII Catalyst Retest                   | 34     | 1      | N           | 1-3        | 1          |
| 11C    | Model Year Retest                       | 35     | 4      | N           | 9999       | 1990       |
| 11D    | Reserved                                | 39     | 11     | -           |            |            |
| 12     | Date Last Updated                       | 50     | 10     | A           | MM/DD/YYYY |            |
| 13     | CR/LF                                   | 60     | 2      | Cntr. Char. |            |            |
|        | Total Length                            |        | 62     |             |            |            |

Number 11B - OBDII Catalyst Retest Definitions:

- 1 - No special treatment on retesting of previous catalyst failures
- 2 - On retest, if previous catalyst failure and catalyst monitor not ready, perform tailpipe test
- 3 - On retest, if previous catalyst failure and catalyst monitor not ready, go to Model Year Retest rule.

## L.2 Legacy VID Database Information

Table L-19 lists the database tables that contain the inspection and related records in the legacy VID mirror database. As of April 2007, the mirror VID tables require approximately 25 gigabytes.

**Table L-19 – Legacy VID Table Record Counts**

| Table Name               | Record Count |
|--------------------------|--------------|
| ACCESSES                 | 8,598        |
| ADDRESSES                | 8,858        |
| ASSIGNMENTS              | 4,991        |
| CALIBRATIONS             | 3,698,550    |
| CIF_CALIBRATIONS         | 3,152,333    |
| CIF_COLL_INSPECTIONS     | 12,103       |
| CIF_LANES                | 243          |
| CIF_REPLACEMENT_STICKERS | 22,569       |
| CIF_WAIVERS              | 667          |
| DEPENDENCY_TREE          | 4            |
| DPL_VEHICLES             | 119,965      |
| ENF_AUDITS               | 722          |
| ET_SYSTEMS               | 2,100        |
| FUEL_FILES               | 15           |
| INCOMPLETE_TESTS         | 759,640      |
| INSP_CONDITIONS          | 204          |
| INSPECTION_RESULTS       | 23,588,170   |
| LICENSES                 | 14,217       |
| LOCKOUTS                 | 589          |
| MESSAGES                 | 526          |
| MILESTONES               | 2,683        |

|                    |            |
|--------------------|------------|
| NJ_VEHIC_INSPS     | 43,362     |
| NJAS (Inspections) | 22,241,705 |
| NJDMV_VEHICLES     | 13,157,945 |
| OWNERS             | 1,505      |
| OWNERSHIPS         | 1,504      |
| PERSONS            | 1,879      |
| REPAIRS            | 1,267,436  |
| RESPONSIBILITIES   | 1,873      |
| STATION_STARTUPS   | 1,932      |
| STATIONS           | 3,499      |
| TECH_RANDOMS       | 7,776      |
| TECHNICIANS        | 8,991      |
| TEXTS              | 9,623      |
| VEHICLES           | 7,774,794  |

### L.3 Legacy Diesel Database Information

The legacy diesel database includes data from periodic Diesel Emission Inspection Center (DEIC) inspections, diesel roadside inspections, and "pre-enforcement" roadside inspections.

As of April 2007, there were approximately 571,000 inspections in eight tables that require approximately 500 megabytes.

Tables to support the diesel inspection process shall include, but not be limited to, the following data elements:

- Vehicle plate number
- Vehicle make
- Vehicle year
- Vehicle type
- VIN number
- Mileage
- ID # Type – USDOT, NJDOT, ICC etc.
- Carrier/Owner ID #
- Old DEIC sticker number/ date of expiration
- Summons number – from roadside inspection if applicable
- Violation opacity % reading from roadside inspection
- Inspection type – initial/periodic, violation roadside, P/M, Retest
- Engine make- CAT, Detroit Diesel, Mack etc.
- Opacity standard
- Displacement
- Horsepower
- RPM Idle
- RPM max
- Rise time – time from RPM idle to RPM max ( measured in seconds)
- GVWR of vehicle
- Oil Temperature
- Exhaust stack size (diameter)
- Exhaust system integrity
- Retrofit required yes/no
- Retro-fit device
- Filters

Catalytic converter  
Ambient temperature Fahrenheit  
Humidity  
Dew Point  
Smoke meter manufacturer – Bosch, Wager 6500/7500, Red Mountain, Berkley, Cal test  
Smoke meter unit number  
Visible precipitation  
Aspiration – turbo, intercool, aftercool  
Transmission – auto/manual  
Vehicle water temperature  
Test type – Snap, Rolling Acceleration, Stall/Power brake, OBDII, Other  
Test Date  
Test start time  
Test end time  
Opacity test result – Pass/Fail (initial inspection)  
Opacity test % result - (initial inspection)  
Opacity test result – Pass/Fail (re-inspection)  
Opacity test % result – (re-inspection)  
OBDII test result – Pass/Fail  
NOx reading – Pass/Fail  
Vehicle repairs performed:  
    Air filter  
    Air/fuel ratio adjusted  
    EGR switch replaced  
    EGR valve replaced  
    Engine R/R  
    Fuel filter replaced  
    Fuel pump replaced  
    Fuel rack adjusted  
    Governor adjusted  
    Injection timing adjusted  
    Injection nozzles R/R  
    Intercooler R/R  
    Metering pump R/R  
    Turbo R/R  
    Valve timing adjusted  
    De-carbonize  
    Chip flash  
    Low NOX re-build  
    Other  
Repair Order number  
Repair time  
Repair cost  
Engine hours  
DEIC license number  
DEIC Address  
DEIC Type – class I / class II  
New sticker number/ expiration date  
Inspector name  
Inspector certification ID  
Inspector signature

## Repair certification type – repair bill/test printout

A summons must be issued for vehicles that fail a diesel roadside inspection, to include but not be limited to the following data elements:

Driver name  
Driver address  
Driver license number/Corrcode  
Driver license state  
Owner name  
Owner address  
Vehicle plate  
VIN  
Vehicle make  
Vehicle Model  
Vehicle year  
Inspection location (street, municipality and county)  
Inspection time  
Inspection date  
Inspector name  
Inspector ID  
Inspector signature

### **L.4 Legacy Commercial Bus Information**

There is no legacy data from the Commercial Bus unit. In 2006 there were:

- 610 Specification Inspections of new and used buses
- 8520 In-terminal Inspections
- 7600 Reinspections
- 2104 Self-inspections
- 1227 buses posted out-of-service for mechanical defects

Tables to support the School Bus inspection process shall include, but not be limited to, the following data elements:

|           |                    |
|-----------|--------------------|
| <b>A</b>  | EXPIRATION DATE    |
| <b>B</b>  | INVESTIGATOR CODE  |
| <b>C</b>  | TERRITORY CODE     |
| <b>D</b>  | OWNER CODE         |
| <b>E</b>  | OPERATOR CODE      |
| <b>F</b>  | GARAGE CODE        |
|           | TYPE OF INSPECTION |
| <b>1</b>  | MVC                |
| <b>1A</b> | SELF               |
| <b>1B</b> | AUDIT              |
| <b>2</b>  | OWNER              |
| <b>2A</b> | OPERATOR           |
| <b>2B</b> | OPERATOR'S ADDRESS |

3 REJECTION DATE  
4 REJECTION DATE  
5 REJECTION DATE  
6 REJECTION DATE  
7 APPROVAL DATE  
8 1ST INSPECTION CYCLE  
9 2ND INSPECTION CYCLE  
10 MVC NUMBER  
11 BUS NUMBER  
12 MAKE  
13 MODEL  
14 YEAR  
15 VIN  
16 SEATS  
17 REGISTRATION

SCHOOL SERVICE  
18 YES  
19 NO  
20 SIGNS  
21 LIGHTS  
22 IND  
23 FIRST AID  
24 CHAINS  
25 BAR  
26 CONVEX MIRROR  
27 LIGHTS  
28 STEP  
29 DASH  
30 INSIDE  
31 HEAD LAMPS  
32 ALIGNMENT  
33 TAIL  
34 MARKER  
35 CLUSTER  
36 STOP  
37 DIRECTIONAL  
38 BACK-UP  
39 REFLECTOR

EMERGENCY EXIT  
40 DOOR  
40A HATCH  
41 WINDOW  
42 READILY OPENED  
43 PUSH  
44 KICK  
45 SIGNAL  
46 SIGN

|     |                                    |
|-----|------------------------------------|
|     | COMPRESSOR                         |
|     | PERFORMANCE                        |
| 47  | TIME                               |
| 48  | FOUR STOPS                         |
| 49  | GAUGE                              |
| 50  | LOW AIR SIGNAL                     |
| 51  | AUDIO                              |
| 52  | VISUAL                             |
| 53  | STEERING                           |
| 53A | STEERING WHEEL PLAY                |
| 54  | AIR LEAKS                          |
| 55  | BRAKES                             |
|     | TAPLEY READINGS TAKEN              |
| 56  | BY:                                |
| 57  | FOOT                               |
|     | <br>BRAKE MEASUREMENTS             |
|     | (AFTER FINAL                       |
|     | ADJUSTMENTS, IF                    |
|     | NECESSARY)                         |
|     | AXLE 1                      AXLE 2 |
| 57A | AXLE 3                             |
| 58  | HAND                               |
| 59  | ICC                                |
| 60  | DD3/121                            |
| 61  | SERIES "MC"                        |
| 62  | CROWD GATE                         |
| 63  | PARTITION RAIL                     |
| 64  | CURTAIN                            |
|     | INSPECTION STICKER                 |
| 65  | NUMBER                             |
| 65A | PINK CARD NUMBER                   |
| 66  | WINDSHIELD WIPER                   |
| 67  | WASHER                             |
| 68  | ARM                                |
| 69  | BLADE                              |
|     | MIRRORS                            |
| 70  | IN                                 |
| 71  | OUT                                |
| 72  | RIGHT                              |
| 73  | LEFT                               |
| 74  | SPEEDOMETER READING                |
| 75  | LIGHT                              |
| 76  | HUBODOMETER                        |
| 77  | HORN                               |
| 78  | PASSENGER SIGNAL                   |

|             |                             |
|-------------|-----------------------------|
| <b>79</b>   | FIRE EXTINGUISHER           |
| <b>80</b>   | FLOOR                       |
| <b>81</b>   | STEPS                       |
| <b>82</b>   | WHEEL HOUSING               |
| <b>83</b>   | SEATS                       |
| <b>84</b>   | HANDLES                     |
| <b>85</b>   | HEATING                     |
| <b>86</b>   | VENTILATING                 |
| <b>87</b>   | AC                          |
| <b>88</b>   | SENSITIVE EDGE              |
| <b>89</b>   | INTERLOCK                   |
| <b>90</b>   | SIGNAL                      |
|             | CLEANNES                    |
| <b>91</b>   | INSIDE                      |
| <b>92</b>   | OUT                         |
|             | SIGNS                       |
| <b>93</b>   | FRONT                       |
| <b>94</b>   | NON SMOKING                 |
|             | BUMPERS                     |
| <b>95</b>   | FRONT                       |
| <b>96</b>   | REAR                        |
| <b>97</b>   | WHEELS                      |
| <b>98</b>   | STUDS                       |
| <b>99</b>   | TIRES                       |
|             | SUSPENSION                  |
| <b>100</b>  | TORSION                     |
| <b>101</b>  | SPRING/SHOCK                |
| <b>102</b>  | AIR                         |
| <b>103</b>  | EXHAUST                     |
| <b>104</b>  | SHAFT GUARD                 |
| <b>105</b>  | GROUND STRAP                |
| <b>106</b>  | FUEL TANK                   |
| <b>107</b>  | LEAKS                       |
| <b>108</b>  | FIRE HAZARD                 |
| <b>109</b>  | INSURANCE                   |
| <b>110</b>  | NAME                        |
| <b>111</b>  | BUS NUMBER                  |
| <b>112</b>  | CHARTER NUMBER              |
| <b>113</b>  | EMERGENCY WARNING EQUIPMENT |
| <b>114</b>  | DRIVERS SEAT BELT           |
| <b>115</b>  | EMISSIONS TESTED BY:        |
| <b>115A</b> | READINGS: (AVERAGE)         |
| <b>116</b>  | BODY                        |
| <b>116A</b> | MISC.                       |

|            |                       |
|------------|-----------------------|
| <b>117</b> | GLASS                 |
| <b>118</b> | WHEEL CHAIR LIFT/RAMP |
|            | DEFECTIVE CARDS       |
| <b>119</b> | # YES                 |
| <b>120</b> | # NO                  |
|            | REPAIRS MADE          |
| <b>121</b> | # YES                 |
| <b>122</b> | # NO                  |
|            | REMOVED FROM SERVICE  |
| <b>123</b> | DATE                  |
| <b>125</b> | TIME                  |
|            | PASTER NUMBER         |
|            | EXAMINED DATES        |
| <b>126</b> | TO                    |
| <b>127</b> | FROM                  |
|            | INSPECTOR'S SIGNATURE |

## **L.5 Legacy School Bus Database Information**

As of April 2007, there were approximately 132,000 inspections in 31 tables that require approximately 3 gigabytes.

Tables to support the School Bus inspection process shall include, but not be limited to, the following data elements:

### **CREDENTIALS**

1. License (15)
2. Registration
3. Insurance
4. Plates (10)

### **IDENTIFICATION**

1. Lettering
2. Color
3. Advertising
4. GVW+26,001

### **SCHOOL BUS WARNING EQUIPMENT**

1. Red/Amber
2. Switching
3. Indicator
4. Stop Arm
5. Brake Pilot Light
6. Backup Alarm

### **BUS EXTERIOR**

1. Conditioning
2. Bumper
3. Rub Rails
4. Fenders
5. Crossing Arm



6. Hoods

#### MIRRORS

1. Rear View
2. Cross Over
3. Interior
4. Rear View Convex

#### UNDERBODY

1. Undercoating
2. Shackles
3. Springs
4. FI Supports
5. Guards
6. Members
7. Shocks
8. Leaks
9. Clips
10. Bolts
11. Seal
12. Cylinders
13. Air Tanks
14. Bearings
15. Leak

#### FUEL LINES/TANKS

1. Mounting
2. Cage
3. Fill Cap
4. Heat Shield
5. Lines

#### UNDERHOOD

1. Firewall
2. Drive Belts
3. Wire/Hoses
4. Battery
5. Fuel Leaks
6. Coolant – Lines
7. Air – Cleaner
8. Heater Shut Off – Valve
9. Antifreeze – Leak
10. Oil – Leak
11. Power – Steering
12. Brake – Fluid
13. Compress – Leak
14. Other

#### TIRES

1. Condition
2. Rims
3. Lugs
4. Snow tires on drive wheels
5. Or chains available on bus (when required)

#### DOOR/STEPS

1. Service door

2. Entry steps
3. Side doors
4. Heat bump pad
5. Grab handles
6. Entry steps
7. Stirrups
8. Stepwell light
9. Seals
10. Step tread

#### EMERGENCY EXITS DOOR/WINDOWS ROOF HATCHES

1. Lettering
2. Ignition – Interlock
3. Door buzzer
4. Door handles
5. Heat bump – pads
6. Backup lights with door open – B.C. & D
7. Door side bar
8. Reflective tape
9. Door hinges
10. Push out instructions – L, R
11. Roof hatch instructions – F, R
12. Push out buzzer/broken – L, R
13. Roof hatch buzzer/broken-F, R

#### CRASH BARRIERS

1. Mounting
2. Padding
3. Covering
4. Stanchions

#### SUNSHIELD

1. Missing
2. Non transparent
3. Non adjustable
4. Broken

#### SAFETY EQUIPMENT

1. Fire extinguisher – mounting
2. First aid kit – mounting
3. Charge
4. Missing equipment
5. Size
6. Portable warming – device
7. Wrecking – bar

#### INSTRUMENTS

1. Speedometer
2. Oil gauge
3. Voltmeter
4. High beam indicator
5. Water temp
6. Air vacuum
7. Ammeter
8. Odometer
9. Fuel gauge

#### WINDSHIELD WIPER/WASHERS HORN

1. Wiper inoperable
2. Washers inoperable
3. Blades
4. No fluid
5. Sweep
6. Horn

#### GEAR SHIFT INDICATOR

1. Mounting
2. Pattern
3. Shift detent
4. Floor boot

#### HEATERS

1. Shield hose
2. Defogging fans (L), (R)
3. Defrosters (L), (R)
4. Heaters (L), (R)
5. Rear

#### SEATS

1. Mounting
2. Condition
3. Missing
4. Seat belts
5. Cutter
6. Driver refractor
7. Restraining device

#### BUS INTERIORS

1. Dome light
2. Cleanliness
3. Ceiling
4. Side walls
5. Storage comp
6. Air conditioning/mount location
7. Floor
8. Aisle/clearance

#### STEERING & SUSPENSION

1. Looseness
2. Wheel rock (L), (R)
3. Wheel lash

#### SERVICE BRAKE

1. Reserve warning
2. Device
3. Test @20mph Stop distance
4. Calipers/Rotors
5. Leak
6. Hose/Tubing
7. Air chamber (Front), (Rear)

#### PARKING BRAKE

1. Reserve
2. Inoperative
3. Other

## LIGHTS

1. Parking
2. Directional signal headlights
3. Hazard
4. Marker
5. Tail
6. Clearance
7. L Aim
8. R Aim
9. Stop
10. Plate
11. High beam
12. Wiring/switching
13. Indicator
14. Backup
15. Other
16. ID
17. Reflectors

## GLAZING

1. W/S
2. L/S
3. R/S
4. Rear
5. Visual obstruction
6. Gradient tint

## EXHAUST SYSTEMS

1. Mounting
2. Leaks
3. Noise
4. Patched
5. Termination point

## HANDICAPPED RQ ONLY

1. Rump/power lift
2. Door fastening device tether
3. Lift door
4. Interlock
5. Buzzer
6. Identification
7. Light
8. Fluid leaks
9. Hand rail
10. Manual pump handle
11. Two way radio

## MISCELLANEOUS

## CLARIFICATION

## APPENDIX M – SAMPLE REFERENCE DATA

Examples of the types of data that must be stored in reference tables include, but are not limited to, the following:

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Active/Inactive Codes             | OBD Cat Retest Codes                       |
| Bureau of Licensing System Codes  | OBD Communication Result Codes             |
| CatConverterDtcPresent Codes      | OBD PID Codes                              |
| ChangeICD Codes                   | OBD PID Count Codes                        |
| Cutpoint Opacity Codes            | OBD Protocol Codes                         |
| Cycle Test Type Codes             | Odometer Exception Codes                   |
| Diesel Credentials ID Type Codes  | Odometer Reading Unit Codes                |
| Diesel Repair Codes               | Opacity Test Sequence Codes                |
| Diesel Test Type Codes            | Pass/Fail Only Codes                       |
| Diesel Vehicle Type Codes         | Readiness Monitors Summary Codes           |
| DLC Result Codes                  | Readiness Result Codes                     |
| DTC Codes                         | Repair Certification Codes                 |
| Duration Period Codes             | Result Codes                               |
| Emissions Inspection Program Code | Roadside Inspection Level Codes            |
| Emission Test Chance Codes        | Safety Inspection Program Codes            |
| Emission Test Multiple Codes      | Safety Item Category Codes                 |
| Emission Test Type Codes          | Safety Item Group Codes                    |
| Engine Aspiration Codes           | Specialty Inspection Codes                 |
| Engine Displacement Unit Codes    | Tailpipe Test Type Codes                   |
| Engine Non-Cylinder Codes         | Temperature Unit Codes                     |
| Entry Source Codes                | Test Equipment Manufacturer Codes          |
| Etw Entry Source Codes            | Test Extent Codes                          |
| Facility Category Codes           | Transaction Type Codes                     |
| Fuel Codes                        | Vehicle Dyno Test Codes                    |
| Gas Cap Adapter Choice Codes      | Vehicle Emission Certification Class Codes |
| Gas Cap Adapter Codes             | Vehicle Transmission Codes                 |
| GVWR Unit Codes                   | Vehicle Usage Codes                        |
| I/M Repair Codes                  | Waiver Document Review Codes               |
| I/M Vehicle Body Style Codes      | Waiver Eligibility Codes                   |
| I/M Vehicle Type Codes            | Waiver Emission Test Passed Codes          |
| Include Exclude Codes             | Waiver Issued Codes                        |
| Inspection Program Codes          | Y/N Codes                                  |
| Major Inspection Group Codes      | Y/N/M Codes                                |
| OBD Category Retest Codes         |                                            |

## APPENDIX N – REPAIR CATEGORIES

Legacy repair categories are:.

| ERF Legacy Repair Categories for Gasoline-Powered Vehicles | DEIC Legacy Repair Categories for Diesel Vehicles |
|------------------------------------------------------------|---------------------------------------------------|
| 01 PCV System                                              | 27 Air Filter Repair/Replace                      |
| 02 Thermostatic Air Cleaner                                | 28 Air/Fuel Ratio – Adjust                        |
| 03 Air Injection System                                    | 29 EGR Switch – Replace                           |
| 04 Air Pump                                                | 30 EGR Valve – Replace                            |
| 05 Air Filter                                              | 31 Engine – Repair/Replace                        |
| 06 EGR System – Other                                      | 32 Fuel Filter – Replace                          |
| 07 EGR Valve                                               | 33 Fuel Pump – Replace                            |
| 08 Evaporative Emission Controls – Other                   | 34 Fuel Rack – Adjust                             |
| 09 Fuel Cap                                                | 35 Governor – Adjust                              |
| 10 Vapor Lines                                             | 36 Injection Timing – Adjust                      |
| 11 Charcoal Canister                                       | 37 Injector Nozzles – Repair/Replace              |
| 12 Catalytic Converter or Thermal Reactor                  | 38 Intercooler – Repair/Replace                   |
| 13 Ignition System – Other                                 | 39 Metering Pump – Repair/Replace                 |
| 14 Spark plugs/Ignition Wires                              | 40 Turbo – Repair/Replace                         |
| 15 Timing                                                  | 41 Valve Timing – Adjust                          |
| 16 Fuel Filter                                             | 42 Decarbonize                                    |
| 17 Carburetor Adjustment                                   | 43 Chip Flash                                     |
| 18 Carburetor Rebuild/Replace                              | 44 Low-NOx Rebuild                                |
| 19 Fuel Injectors                                          | 45 Other                                          |
| 20 Fuel Injection System – Other                           |                                                   |
| 21 Engine Mechanical – Other                               |                                                   |
| 22 Vacuum Hose/Fittings                                    |                                                   |
| 23 Computer System or ECM                                  |                                                   |
| 24 Oxygen Sensor                                           |                                                   |
| 25 Other Electronic Sensor                                 |                                                   |
| 26 Other Repairs/Unknown                                   |                                                   |

## APPENDIX O – VEHICLE INSPECTION REPORT

### O.1 Legacy Vehicle Inspection Report (VIR) Description

This appendix describes the legacy vehicle inspection report (VIR) that is produced at the end of every inspection. The new system must produce a VIR with similar data, but printing of the different sections and optional paragraphs shall be controlled by rules.

#### General Format

1. The size of the completed report shall be eight and one-half by eleven inches (8.5"×11"). Final layout is subject to approval by the DEP and MVC. The appropriate report shall be automatically printed by the inspection equipment at the conclusion of each inspection, regardless of the inspection disposition. MVC shall supply the TIFF files of the MVC Logo to the bidders once a written request is received.
2. The inspection equipment shall produce an Adobe PDF file of the VIR, which shall subsequently be printed and given to the customer.
3. If all required information cannot fit on one page, additional pages shall be printed.

Duplicate VIRs shall include "DUPLICATE" prominently displayed.

#### Data Fields

Facility Name

Facility Street Address 1

Facility Street Address 2

Facility City

Facility State

Facility ZIP

Facility Phone Number

Facility ID

Equipment ID

VIN

Plate Number

Plate Jurisdiction

Vehicle Type (P, T, or H)

Vehicle Year (YYYY)

Vehicle Make

GVWR

Vehicle Model

Odometer Reading (do not include tenths)

Certificate Number (The Certificate Number is composed of:

- o Facility ID (9 characters)
- o Julian Date (YYYYDDD)
- o Number of seconds since midnight (99999) (use the test start date/time))

Software Version

Date/Time (start of inspection)

Cycle Test Type (Initial, Retest, Off-cycle, Courtesy)

Test Extent (Complete, Partial)

Passing Sticker # (blank for failed inspections)

Inspection Expiration Date before inspection  
 Inspection Expiration Date after inspection  
 Inspection Compliance Date  
 Inspection Performed (OBD and Safety Inspection, Safety Inspection Only, TSI Emission Test Only, etc.)  
 Overall Inspection result (PASS or FAIL)  
 Overall Safety result  
 Overall OBD/Emissions result  
 HC Standard, Reading, Result  
 CO% Standard, Reading, Result  
 CO 2% Reading  
 O 2% Reading  
 RPM Reading, Result  
 Gas Cap Result  
 "No gas cap adapter available" (if no adapter available; otherwise, blank)  
 Tampering Result (Catalytic Converter Result)  
 Visible Smoke Result  
 Readiness Monitor Status
 

- o Catalytic Converter readiness status
- o Heated Catalytic Converter readiness status
- o Oxygen Sensor readiness status
- o Oxygen Sensor Heater readiness status
- o EGR System readiness status
- o Secondary Air Injection readiness status
- o Evaporative System readiness status
- o Fuel System readiness status
- o Engine Misfire readiness status
- o A/C Refrigerant readiness status
- o Comprehensive Component readiness status

 Overall Readiness Result  
 Bulb Check Result  
 Check Engine Light ON Result  
 OBD Connector Result  
 OBD Communications Result  
 MIL Command Status Result  
 Overall OBD Result  
 Number of OBD DTCs present
 

- o Individual DTCs (leave blank if no DTCs present; if more than 5 DTCs present, list only the first 5 recorded)

 If this is a continuation page print:  
 "(Continued from Page n)"  
 where "n" is the number of the previous page.

**Table O-1: First Explanation Line - Overall Result**

| CONDITION | EXPLANATION LINE                    |
|-----------|-------------------------------------|
| Passed    | This vehicle has passed inspection. |
| Failed    | This vehicle has failed inspection. |



**Table O-2: Optional Explanation Lines for Vehicles that Passed Inspection**

| CONDITION                    | EXPLANATION LINE                       |
|------------------------------|----------------------------------------|
| Exempt from emission testing | It is exempt from emission inspection. |

**Table O-3: Optional Explanation Line for Vehicles that Failed Inspection**

| CONDITION | EXPLANATION LINE                                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| Failed    | It must pass reinspection by mm/dd/yyyy at any inspection facility.<br>Note: The date shown is the Inspection Compliance Date. |

**Table O-4: Additional Optional Explanation Lines for Vehicles that Failed Inspection**

| CONDITION                    | EXPLANATION LINE                                  |
|------------------------------|---------------------------------------------------|
| Safety inspection passed     | It has passed safety inspection.                  |
| Emission test passed         | It has passed emission inspection.                |
| Emission test failed         | It has failed emission inspection as noted above. |
| Exempt from emission testing | It is exempt from emission inspection.            |

**Table O-5: Optional Explanation Lines for Vehicle that Fail Safety or Credentials Inspections**

| CONDITION                      | EXPLANATION LINE                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Safety or Credentials failures | It has failed inspection for the following condition(s): {text for each Failed condition}                      |
| 48 Hour failure conditions     | The following serious condition(s) must be corrected within 48 hours: {text for each 48 Hour Failed condition} |

**Table O-6: Optional Explanation Lines for Failed Vehicles with Advisory Conditions**

| CONDITION  | EXPLANATION LINE                                                                    |
|------------|-------------------------------------------------------------------------------------|
| Advisories | The following condition(s) must be corrected:<br>{text for each Advisory condition} |

**Table O-7: Optional Explanation Lines for Passed Vehicles with Advisory Conditions**

| CONDITION  | EXPLANATION LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advisories | <b>Advisory Condition(s)</b><br>This vehicle has passed inspection. However, the below noted ADVISORY(ies) must be repaired within 60 days from the date of this inspection or this vehicle may be cited for failure to make repairs (N.J.S.A. 39:8-4(b)) and be subject to the penalties set forth under N.J.S.A. 39:8-9. This vehicle does not have to be re-inspected for the advisory items. Maintain your vehicle throughout the inspection cycle. A vehicle may be cited at any time for equipment out of compliance.<br><b>Advisory Conditions:</b><br>{text for each Advisory condition} |

**Table O-8: Optional TSB and Recall Data Explanation Lines**

| CONDITION                     | EXPLANATION LINE                                     |
|-------------------------------|------------------------------------------------------|
| TSB data returned from VID    | Technical Services Bulletin: TSB #: 81-4 Make: AMC   |
| Recall data returned from VID | Recall: Model Year: 1982 Engine Family: FAD1.6V6FBC2 |

Note: The line shall begin with either "Technical Services Bulletin:" or "Recall:" followed by the first line of the VID data.

**Table O-9: Required Data Transmission Statements**

| CONDITION                                   | EXPLANATION LINE                                                                                                                                                                                                                  |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Results successfully transmitted to VID     | The results of this inspection have been transmitted to MVC.                                                                                                                                                                      |
| Results not successfully transmitted to VID | The results of this inspection have not yet been transmitted to MVC. To conduct further business concerning this vehicle before the data is electronically transferred (1 to 2 days), you may need to present this report to MVC. |

**Table O-10: Required Document Retention Statement**

| CONDITION         | EXPLANATION LINE                              |
|-------------------|-----------------------------------------------|
| Passed inspection | PLEASE RETAIN THIS DOCUMENT FOR YOUR RECORDS. |
| Failed inspection | RETAIN THIS DOCUMENT FOR USE ON REINSPECTION. |

**Table O-11: Optional Warranty Repairs Statements for Failed Emission Tests**

| CONDITION                 | STATEMENT                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model year 1994 and older | Vehicles that fail the Emissions Inspection may be eligible for warranty coverage for the required repairs. Vehicle manufacturers are required by federal law to provide Emissions Warranties for at least five (5) years or fifty thousand (50,000) miles. Warranty coverage may vary depending upon vehicle make and model year. For further information, refer to the Emissions Warranty section of the vehicle owner's manual.   |
| Model year 1995 and newer | Vehicles that fail the Emissions Inspection may be eligible for warranty coverage for the required repairs. Vehicle manufacturers are required by federal law to provide Emissions Warranties for at least eight (8) years or eighty thousand (80,000) miles. Warranty coverage may vary depending upon vehicle make and model year. For further information, refer to the Emissions Warranty section of the vehicle owner's manual. |

**Table O-12: Optional Other Emission Failures Statements**

| CONDITION                                  | STATEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Failed emission control systems inspection | This vehicle has failed the emissions inspection due to an Emissions Control Systems Inspection failure. If any of the applicable systems are inoperable, or have been removed or damaged, or rendered inoperable, or are not operating to specifications, the vehicle shall not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the system(s) that failed must be repaired and the vehicle reinspected. |

| CONDITION                       | STATEMENT                                                                                                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Failed visible smoke inspection | This vehicle has failed the emissions inspection due to visible smoke emissions. The vehicle shall not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the vehicle must be repaired and then reinspected. |

**Table O-13: Optional OBD Inspection Results Statements**

| CONDITION                                                            | STATEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OBD Message No. 1 - DLC connector failure                            | This vehicle has failed the emissions inspection due to a damaged, missing, obstructed or modified On-Board Diagnostic (OBD) system connector. The vehicle does not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the connector must be repaired and the vehicle reinspected.                                                                                                                                                             |
| OBD Message No. 2 - MIL bulb failure                                 | This vehicle has failed the emissions inspection due to an inoperable On-Board Diagnostic Malfunction Indicator Light (OBD MIL). The vehicle does not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the MIL bulb must be repaired and the vehicle reinspected.                                                                                                                                                                            |
| OBD Message No. 2a - MIL bulb failure, advisory                      | This vehicle has an inoperable Malfunction Indicator Light (MIL). While this may not cause the vehicle to fail the inspection at this time, it is recommended that the MIL bulb be repaired to ensure easy identification of future problems by the On-Board Diagnostic (OBD) system.                                                                                                                                                                                                            |
| OBD Message No. 3 - KOER failure or MIL commanded on                 | Based on information obtained from the On-Board Diagnostic (OBD) system, this vehicle has failed due to a problem with the pollution control system that is causing higher than normal emissions. The vehicle does not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the pollution control system must be repaired and the vehicle reinspected. Fault Codes stored on the OBD system are listed above to assist in repairing the vehicle. |
| OBD Message No. 3a - Failed KOER check or MIL commanded on, advisory | This vehicle's On-Board Diagnostic (OBD) system is indicating there is a problem with the pollution control system that is causing higher than normal emissions. While this may not cause the vehicle to fail the inspection at this time, it is recommended that the vehicle be repaired to reduce emissions and possibly improve performance and fuel economy.                                                                                                                                 |
| OBD Message No. 4 - Communications failure                           | This vehicle has failed the emissions inspection due to a communication problem with the On-Board Diagnostic (OBD) system. The vehicle does not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the OBD system must be repaired and the vehicle reinspected.                                                                                                                                                                                |
| OBD Message No. 4a - Communications failure, advisory                | This vehicle has a problem that is preventing communication with the On-Board Diagnostic (OBD) system. While this may not cause the vehicle to fail the inspection at this time, it is recommended that the vehicle be repaired to ensure easy identification of future problems by the OBD system.                                                                                                                                                                                              |

| CONDITION                             | STATEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OBD Message No. 5 - Readiness failure | Based on information obtained from the On-Board Diagnostic (OBD) system, the system is not ready to determine the status of the pollution control system on this vehicle. The vehicle does not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the vehicle's OBD system must be ready for testing upon reinspection. See the vehicle owner's manual for information on "OBD/Readiness Driving Procedures" or contact your vehicle service provider. |
| OBD Message No. 6 - OBD pass          | Based on information obtained from the On-Board Diagnostic (OBD) system, the pollution control system on this vehicle is operating properly.                                                                                                                                                                                                                                                                                                                                                             |
| OBD Message No. 7 - OBD failure       | The On-Board Diagnostic (OBD) system was not able to determine if the catalyst of this vehicle is functioning properly, and the vehicle failed a tailpipe test to confirm the catalyst is working properly. The vehicle does not qualify for a certificate of emissions inspection approval. To continue with the inspection process, the catalyst must be repaired and the vehicle reinspected.                                                                                                         |

Page Number.

Explanation lines shall be printed to the end of the page (across the perforation if necessary), leaving enough space for the inspector's name and signature, with the page number being the last explanation line. If an explanation line cannot fit on the page, or the printed lines overlap the sticker insert area, an additional VIR page must be printed. In these cases, the Page Number line shall be:

"Page n (continued on Page n+1)"

where "n" is the current page number. Otherwise, it shall be:

"Page n"

Inspector ID - The Inspector ID shall print at the bottom of every page of the VIR.

Inspector Name - The Inspector name shall print at the bottom of every page of the VIR.

The Sticker Insert and overall inspection result shall print on the last page of the VIR.

NOTE: For non-NJ vehicles, all sticker insert fields shall contain "VOID" instead of the listed data.

Sticker Expiration Date

The new inspection expiration date (month only).

Overall test result - Print the overall test result (PASS or FAIL).

VIN

Vehicle Year, Make, and Model

Certificate Number

Sticker Insert Barcode:

The sticker insert barcode shall be printed in 10-mil PDF417 2D barcode in AAMVA format. See Appendix D for a description of the AAMVA format and examples of the barcodes.

The sticker insert barcode shall contain the following data elements:

- VIN
- Vehicle Year
- Vehicle Make
- Vehicle Model
- Overall inspection result (Passed, Failed, or Waived)

#### EIS.DAT in Barcode

A barcode that contains the EIS.DAT record shall be put on all FAILED VIRs. This barcode can then be scanned at retest to get all information about the failed test to facilitate the retest.

This barcode shall NOT be in AAMVA format. Instead, it shall consist of a single string comprised of a short header followed by the text of EIS.DAT. The header shall have the following form:

VIRnnn

where nnn = EIS.DAT version number

The version number shall initially be "001". This shall allow for future changes that may modify the length or content of EIS.DAT.

The header shall be followed by the EIS.DAT record as sent to the VID, including the ending CR/LF. This record is defined elsewhere in this document and is currently 933 characters long. The barcode shall be printed using 10 x 30 mil elements and error correction level 5. The width of the barcode shall be less than 3 inches, which can be accomplished by limiting the width to 13 columns. The barcode shall be placed at the bottom of the VIR, at least 1/8 inch from the bottom edge and one inch from the right edge.

## **O.2 Heavy Duty Diesel Vehicle Inspection Report (VIR) Description**

Heavy Duty Diesel Vehicles (HDDV) shall receive a VIR with slightly different content. The sections relating to tailpipe emissions and OBD results shall be replaced by the Opacity percentage as measured by the smoke meter.

Also included shall be the following data elements:

Diesel Vehicle Type

Carrier ID Type (USDOT, NJDOT, CorpCode, Etc.)

Carrier ID

Old Sticker Number

If inspection is a result of a summons:

Summons Number

Violation Opacity

Engine Make

Engine Year

Opacity Standard

Engine Displacement

Engine Horsepower  
Engine Aspiration  
Transmission Type  
Oil Temperature  
Water Temperature  
Stack Size Measured  
Stack Size Nominal  
Ambient Conditions:  
Temperature  
Humidity  
Dew Point  
Precipitation (Y/N)  
Smoke meter Model  
Smoke meter ID  
Diesel Test Type  
Opacity  
Other Emission conditions  
Test Result (Pass or Fail)

## APPENDIX P – TABLE AND FIGURE LISTING FROM THE NJ ANNUAL REPORT TO USEPA (2004)

Table P-1 provides a summary of the tables, charts, and figures required for the NJ annual report to USEPA. The full reports for 2003 and 2004 can be found at the DEP website:

[http://www.nj.gov/dep/bmvim/bmvim\\_reports.htm](http://www.nj.gov/dep/bmvim/bmvim_reports.htm)

**Table P-1 – Reports Required for the NJ Annual Report to USEPA**

| Report Type                                                                                                          | Description                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Data Report (table and Figure)                                                                                  | New Jersey Enhanced Inspection and Maintenance Program Summary of Total Emissions Inspections Year 2004                                                     |
| Initial Emission Test Volume and Failure Rate By Model Year and Station Type (table, pie chart, and bar graph)       | New Jersey Enhanced Inspection and Maintenance Program Initial Emission Test Volume and Pass/Fail Rate by Model Year/Station Type Year 2004                 |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial Emission Test Volume by Model Year - Centralized vs. Decentralized Year 2004                 |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial Emission Test Failure Rate by Model Year - Centralized vs. Decentralized Year 2004           |
| Initial Inspection Test Volume and Failure Rate by Centralized Inspection Facility (table, pie chart, and bar graph) | New Jersey Enhanced Inspection and Maintenance Program Total Initial Emission Inspections - Centralized Inspection Facilities (CIFs) Year 2004              |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Total Number of Initial Emission Inspections by Centralized Inspection Facility Year 2004            |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Total Initial Emission Test Failure Rate by Centralized Inspection Facility Year 2004                |
| Initial Emission Inspection Volume by Model Year and Vehicle Type Year 2004 (table, pie chart, and bar graph)        | New Jersey Enhanced Inspection and Maintenance Program Initial Emission Inspection Volume - Year 2004                                                       |
|                                                                                                                      | New Jersey Inspection and Maintenance Program Initial Emission Inspection Volume by Vehicle Type Year 2004                                                  |
| Initial Emission Inspection Failures by Test Type (table, line, and bar graph)                                       | New Jersey Enhanced Inspection and Maintenance Program Total Initial Emission Inspection Failures by Test Type/Model Year/Vehicle Type Year 2004            |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial Overall Emissions Inspections Volume & Failure Rate by Model Year and Vehicle Type Year 2004 |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial OBD Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                      |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial ASM Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                      |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial 2500 RPM Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                 |
|                                                                                                                      | New Jersey Enhanced Inspection and Maintenance Program Initial Idle Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                     |

**Table P-1 – Reports Required for the NJ Annual Report to USEPA**

| Report Type                                                                                                 | Description                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>Initial Gas Cap Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                                   |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>Initial Catalytic Converter Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                       |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>Initial Smoke Test Volume & Failure Rate by Model Year and Vehicle Type Year 2004                                     |
| OBD Inspections (table only)                                                                                | New Jersey Enhanced Inspection and Maintenance Program<br>Overall OBD Inspections - Initial and All Retests Year 2004                                                           |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>OBD Inspections - Pass/Fail Summary by OBD Test Component Year 2004                                                   |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>OBD and Gas Cap (GC) Evaporative Test Report Year 2004                                                                |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>OBD Malfunction Indicator Lamp (MIL) Report Year 2004                                                                 |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>OBD Readiness Status Report Year 2004                                                                                 |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>OBD Failures Switched to Tailpipe Testing Year 2004                                                                   |
| Initially Failed Vehicles Passing/Failing Emission Inspection First Retest by Test Type (table only)        | New Jersey Enhanced Inspection and Maintenance Program<br>Initially Failed Vehicles Failing/Passing First Retest by Test Type/Model Year/Vehicle Type Year 2004                 |
| Initially Failed Vehicles Passing Second or Subsequent Emission Inspection Retest by Test Type (table only) | New Jersey Enhanced Inspection and Maintenance Program<br>Initially Failed Vehicles Passing 2nd or Subsequent Retest by Test Type/Model Year/Vehicle Type Year 2004             |
| Waivers (table and bar graph)                                                                               | New Jersey Enhanced Inspection and Maintenance Program<br>Waiver Report by Model Year and Vehicle Type Year 2004                                                                |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>Total Number of Waivers by Model Year 2004                                                                            |
| Tests with no known final outcome (table only)                                                              | New Jersey Enhanced Inspection and Maintenance Program<br>Tests With No Known Final Outcome by Test Type/Model Year/Vehicle Type Year 2004                                      |
| Final Retest Emission Inspection Passes and Failures by Test Type (table only)                              | New Jersey Enhanced Inspection and Maintenance Program<br>First Retest Emission Inspection Failures and Passes by Test Type/Model Year/Vehicle Type Year 2004                   |
| Average Change in Vehicle Emission Levels After Repairs (table only)                                        | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized/Decentralized Network<br>Average Change in Vehicle Emission Levels After Repairs - All Vehicles Year 2004 |
|                                                                                                             | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized/Decentralized Network<br>Average Change in Vehicle Emission Levels After Repair – LDGV Year 2004          |



**Table P-1 – Reports Required for the NJ Annual Report to USEPA**

| Report Type                                                         | Description                                                                                                                                                             |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized/Decentralized Network<br>Average Change in Vehicle Emission Levels After Repair - LDGT1 Year 2004 |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized/Decentralized Network<br>Average Change in Vehicle Emission Levels After Repair - LDGT2 Year 2004 |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized/Decentralized Network<br>Average Change in Vehicle Emission Levels After Repairs – HDGV Year 2004 |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized Network<br>Average Change in Vehicle Emission Levels After Repairs - All Vehicles Year 2004       |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized Network<br>Average Change in Vehicle Emission Levels After Repairs – LDGV Year 2004               |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized Network Average Change in Vehicle Emission Levels After Repairs - LDGT1 Year 2004                 |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized Network Average Change in Vehicle Emission Levels After Repairs - LDGT2 Year 2004                 |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Centralized Network Average Change in Vehicle Emission Levels After Repair – HDGV Year 2004                   |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Decentralized Network Average Change in Vehicle Emission Levels After Repairs - All Vehicles Year 2004        |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Decentralized Network Average Change in Vehicle Emission Levels After Repairs – LDGV Year 2004                |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Decentralized Network Average Change in Vehicle Emission Levels After Repairs - LDGT1 Year 2004               |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Decentralized Network Average Change in Vehicle Emission Levels After Repairs - LDGT2 Year 2004               |
|                                                                     | New Jersey Enhanced Inspection and Maintenance Program<br>Decentralized Network Average Change in Vehicle Emission Levels After Repairs – HDGV Year 2004                |
| Table                                                               | Create Date vs. Test Date Statistics for the Year 2004                                                                                                                  |
| Centralized Inspection Facility Equipment Audit Report (table only) | New Jersey Enhanced Inspection and Maintenance Program<br>CIF Initial Equipment Audit Pass/Fail Rates by Station Year 2004                                              |
| Compliance Sticker Survey Report (table and pie chart)              | New Jersey Enhanced Inspection and Maintenance Program<br>Compliance Sticker Survey Summary Year 2004                                                                   |
| Table                                                               | USEPA's Performing Onboard Diagnostic System Checks as Part of a Vehicle Inspection and Maintenance Program June 2001                                                   |

## APPENDIX Q – SAMPLE REPORTS

**Table Q-1 – Sample Reports**

| Report Name                          | Description                                                                                                                          | Purpose                  | Frequency           |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| Average Test Time                    | Detailed report of the average time it takes to conduct a complete inspection at each Centralized Inspection Facility.               | Quality Assurance        | Monthly             |
| Bad Inspection Records               | Records that do not match transaction and/or database constraints.                                                                   | Quality Assurance        | Weekly              |
| CIF PIF Split                        | Comparison of the total number of emission tests conducted by the CIFs and PIFs illustrating the market share of each facility type. | Operations               | Monthly             |
| CIF Throughput Report                | Real time accounting of the work flow or throughput of each Centralized Inspection Lane on a detailed hour-by-hour basis.            | VID Notify               | Hourly              |
| Collector CIF                        | Number of collector status vehicle stickers that are issued by each CIF.                                                             | Quality Assurance        | Monthly             |
| Commercial Bus Unit Safety Report    | Safety and emission related conditions found during commercial bus inspections during a specific time period.                        | Statistics               | Monthly             |
| DEIC Result Report                   | Summary of all emission tests conducted at all DEIC Centers on a periodic basis.                                                     | Statistics               | Monthly             |
| Duplicate CIF Inspections            | Provides a record of vehicles that were reinspected less than 30 minutes from the initial inspection at a CIF.                       | Quality Assurance        | Monthly             |
| Duplicate PIF Inspection             | Vehicles reinspected within 30 minutes of an initial inspection at a PIF                                                             | Fraud Analysis/Detection | Monthly             |
| Emission equipment software version  | Count of software versions in use by analyzer                                                                                        | Quality Assurance        | Weekly              |
| Initial Pass CIF                     | Total number of initial inspections conducted at each Centralized Inspection Facility.                                               | Statistics               | Monthly             |
| Inspections with incorrect cutpoints | Inspections with incorrect cutpoints                                                                                                 | Quality Assurance        | Weekly              |
| Low CIF Lane Count                   | Real time accounting of the work flow or throughput of each Centralized Inspection Lane below a predetermined standard.              | Trigger Report           | Hourly or as needed |
| Mileage Error                        | Inspections in which the inspector records an odometer reading greater than 500,000.                                                 | Quality Assurance        | Monthly             |
| OBD CIF Failure                      | Summary of the OBD failure rate at each Centralized Inspection Facility.                                                             | Quality Assurance        | Monthly             |

**Table Q-1 – Sample Reports**

| Report Name                       | Description                                                                                                                                                                                                  | Purpose                  | Frequency     |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|
| OBD Mismatch                      | The VID receives an inspection record where the entered VIN does not match the OBD VIN (eVIN). An alarm sounds on a State auditor's desktop for immediate notification.                                      | VID Notify Report        | Hourly        |
| OBD PIF Failure                   | Summary of the OBD failure rate at each Private Inspection Facility.                                                                                                                                         | Quality Assurance        | Monthly       |
| PIF Last Record Sent              | Number of PIFs that have not transmitted to the VID within the last week.                                                                                                                                    | Quality Assurance        | Monthly       |
| Readiness Report                  | Reinspections after a readiness emission rejection within 30 minutes of the initial inspection.                                                                                                              | Fraud Analysis/Detection | Monthly       |
| School Bus Inspection             | The VID receives an inspection record (not from the School Bus Unit) with a license plate number designating school bus (S1 or S2). An alarm sounds on a State auditor's desktop for immediate notification. | VID Notify               | Hourly        |
| School Bus Inspection Results     | Summary of the safety and emission related conditions found during school bus inspections during a specific time period.                                                                                     | Statistics               | Month         |
| Suspended ERFs                    | Inspections conducted for which emission repairs were made by unlicensed, cancelled or suspended ERFs.                                                                                                       | Quality Assurance        | Monthly       |
| Test Type Count CIF               | Breakdown of emission test types conducted at all CIFs including handlings and percentage of total emission tests conducted.                                                                                 | Management               | Monthly       |
| Total Handlings CIF               | Total handlings (initial and re-examinations) for each Centralized Inspection Facility.                                                                                                                      | Operations               | Monthly       |
| Total Handlings PIF               | Total handlings for each Private Inspection Facility.                                                                                                                                                        | Operations               | Monthly       |
| VIN Character Count CIF           | Specific inspections in which the inspector records less than 17 characters for the vehicle identification number (VIN) on the vehicle inspection database during a vehicle inspection at a CIF.             | Quality Assurance        | Monthly       |
| VIN Character Count PIF           | Specific inspections in which the inspector records less than 17 characters for the vehicle identification number (VIN) on the vehicle inspection database during a vehicle inspection at a PIF.             | Quality Assurance        | Monthly       |
| CIF_OBD_FAILRATES                 | Overall CIF OBD initial inspection test failure rate for current month                                                                                                                                       | Quality Assurance        | Twice a Month |
| CIF Two Speed Idle Test FAILRATES | Overall CIF two speed idle test initial inspection failure rate for the current month                                                                                                                        | Quality Assurance        | Twice a Month |

**Table Q-1 – Sample Reports**

| Report Name                                     | Description                                                                                                                             | Purpose           | Frequency     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|
| CIF Constant Idle Test FAILRATES                | Overall CIF constant idle test initial inspection test failure rate for the current month                                               | Quality Assurance | Twice a Month |
| CIF_GasCap_FAILRATES                            | Overall CIF gas cap test initial inspection failure rate for the current month                                                          | Quality Assurance | Twice a Month |
| OBD Failure Mode Synopsis                       | Overall CIF OBD Test pass/fail rate by OBD test component (Readiness, No Communication, DTC, Bulb, or Connector) for the current month  | Quality Assurance | Twice a Month |
| OBD Fail Rate by Model Year                     | Overall CIF OBD test fail rate by vehicle model year for the current month                                                              | Quality Assurance | Twice a Month |
| Daily OBD Vs NonOBD                             | Overall CIF OBD initial inspection test failure rate vs. NonOBD (tailpipe) by day for the current month                                 | Quality Assurance | Twice a Month |
| Communication Failure Volume by Year Make Model | Overall CIF OBD initial inspection test communication failures by vehicle year, make and model sorted by volume in descending order.    | Quality Assurance | Twice a Month |
| Communication Failure Rate by Year Make Model   | Overall CIF OBD initial inspection test communication failures by vehicle year, make and model sorted by fail rate in descending order. | Quality Assurance | Twice a Month |
| Readiness Failure Volume by Year Make Model     | Overall CIF OBD initial inspection test readiness failures by vehicle year, make and model sorted by volume descending                  | Quality Assurance | Twice a Month |
| Readiness Failure Rate by Year Make Model       | Overall CIF OBD initial inspection test readiness failures by vehicle year, make and model sorted by fail rate in descending order      | Quality Assurance | Twice a Month |
| CIF OBD BYPASS by Year Make Model Summary       | All CIF OBD bypasses by year, make and model for the current month                                                                      | Quality Assurance | Twice a Month |
| CIF OBD BYPASS by CIF Summary                   | All OBD bypasses by CIF for the current month                                                                                           | Quality Assurance | Twice a Month |
| CIF_OBD_FAILRATES by OBD Protocol               | Overall CIF OBD initial inspection test failure rate for the current month by OBD protocol                                              | Quality Assurance | Monthly       |
| PIF OBD BYPASS Year Make Model Summary          | All PIF OBD bypasses by year, make and model for the current month                                                                      | Quality Assurance | Monthly       |
| PIF OBD BYPASS Unreported Report                | All PIF OBD bypasses not reported to DEP by PIF                                                                                         | Quality Assurance |               |

## APPENDIX R – AAMVA BARCODE DEFINITION

The AAMVA barcode format begins with an AAMVA header. Each field in the barcode shall be preceded by a 3-position Field Identifier (FID). This shall allow any process to interpret the data in a barcode without knowing its precise structure. Different applications can then process only the data that is relevant. The impact of layout changes would be limited to those applications that have direct need of the data being modified.

To allow for variation in the barcode without the necessity of software changes, the analyzer should NOT treat the barcode as a fixed format string. Instead, it should treat the barcode as a collection of data elements that are identified individually. The analyzer software should "unstring" the data and extract the relevant data elements. This shall allow the State to change the Registration barcode content for other purposes without impacting the inspection process.

The AAMVA Header has the following format:

@\_ \_ \_AAMVA63603602nn

|         |   |                                                                              |
|---------|---|------------------------------------------------------------------------------|
| @       | = | First character in AAMVA compliant barcode                                   |
| _       | = | character used as the Data Element Separator (line feed)<br>ASCII hex "0A"   |
| _       | = | character used as the Record Separator (record separator)<br>ASCII hex "1E"  |
| _       | = | character used as the Segment Terminator (carriage return)<br>ASCII hex "0D" |
| AAMVA=  |   | indicates that the barcode meets AAMVA Best Practices                        |
| 636036= |   | indicates the jurisdiction (New Jersey) that printed the barcode             |
| 02      | = | AAMVA Best Practices version 02                                              |
| nn      | = | number of AAMVA Subfiles in the barcode                                      |

The Header is followed by a Subfile Designator, one for each Subfile in the AAMVA portion of the barcode:

xxiiiijjjj

|      |   |                                                                                                                                                                                       |
|------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xx   | = | Subfile Type                                                                                                                                                                          |
| iiii | = | offset from the beginning of the barcode to the start of the Subfile (i.e., how many characters appear in the string before the subfile starts; the subfile starts in position iii+1) |
| jjjj | = | length of Subfile, including terminator characters                                                                                                                                    |

The AAMVA Subfiles follow the Subfile Designators. The last Subfile is followed by the Segment Terminator.

Example 1  
Registration Document Barcode  
β = blank

| Field ID | Field Name                   | Format   | Size       | Value             |
|----------|------------------------------|----------|------------|-------------------|
| RAM      | Registration Plate Number    | A        | 10 - fixed | GFFD592βββ        |
| RAG      | Registration Expiration Date | YYYYMMββ | 8 - fixed  | 199911ββ          |
| VAD      | VIN                          | A        | 17 - fixed | ABPL265FW11429301 |
| EAD      | Inspection Expiration Date   | YYYYMMDD | 8 - fixed  | 19991130          |
| ZJA      | NJ1 Indicator                | A        | 1 - fixed  | N                 |
| ZJB      | VIN Extension                | A        | 2 - fixed  | ββ                |
| ZJC      | Document Type                | A        | 2 - fixed  | RG                |

NOTE: Field RAM (Registration Plate Number) is a 10-position fixed-length field, left-justified, space-padded. Only A - Z, 0 - 9, and a dash ("-") are allowable characters. Use the leftmost non-blank characters to determine plate number (up to 10 characters).

Using the above data, the barcode data would be the following data as a continuous string:

@\_\_AAMVA6360360205RG00690028TD00970027VH01240023IN01470014ZJ01610019  
RGRAMGFFD592βββ\_RAG199911ββ\_TDTAF000054535\_TAH19991127\_  
VHVADABPL265FW11429301\_INEAD19991130\_ZJZJAN\_ZJBββ\_ZJCRG\_

This data can be broken down as:

AAMVA Header with 05 subfiles

@\_\_AAMVA6360360205

Subfile Designators

Subfile type (RG), offset (0069), length (0028)

RG00690028

Subfile type (TD), offset (0097), length (0027)

TD00970027

Subfile type (VH), offset (0124), length (0023)

VH01240023

Subfile type (IN), offset (0147), length (0014)

IN01470014

Subfile type (ZJ), offset (0161), length (0019)

ZJ01610019

Subfile Data

Subfile ID

RG

Field ID's and Data

Registration Plate Number (with data element separator)

RAMGFFD592βββ\_

Registration Expiration Date (with segment terminator)

RAG199911ββ\_

Subfile ID

TD

Field ID's and Data

Odometer reading (with data element separator)

TAF000054535\_  
 Odometer Reading Date (with segment terminator)  
 TAH19991127\_  
 Subfile ID  
 VH  
 Field ID's and Data  
 VIN (with segment terminator)  
 VADABPL265FW11429301\_  
 Subfile ID  
 IN  
 Field ID's and Data  
 Inspection Expiration Date (with segment terminator)  
 EAD19991130\_  
 Subfile ID  
 ZJ  
 Field ID's and Data  
 NJ1 Indicator (with data element separator)  
 ZJAN\_  
 VIN Extension (with data element separator)  
 ZJBββ\_  
 Document Type (with segment terminator)  
 ZJCRG\_

Example 2  
 VIR Sticker Insert Barcode  
 β = blank

| Field ID | Field Name                | Format | Size       | Value             |
|----------|---------------------------|--------|------------|-------------------|
| VAD      | VIN                       | A      | 17 - fixed | ABPL265FW11429301 |
| VAK      | Vehicle Make              | A      | 4 - fixed  | CHEV              |
| VAL      | Vehicle Year              | YYYY   | 4 - fixed  | 1993              |
| VAM      | Vehicle Model             | A      | 3 - fixed  | AST               |
| EAR      | Overall Inspection Result | A      | 1 - fixed  | P                 |
| ZJC      | Document Type             | A      | 2 - fixed  | SI                |
| ZJD      | TIN                       | A      | 8 - fixed  | 12345678          |

Using the above data, the barcode data would be the following data as a continuous string:

@\_\_\_AAMVA6360360203VH00490046IN00950007ZJ01020020  
 VHVADABPL265FW11429301\_VAKCHEV\_VAL1993\_VAMAST\_  
 INEARP\_ZJZJCSI\_ZJD12345678\_

This data can be broken down as:

AAMVA Header with 03 subfiles  
 @\_\_\_AAMVA6360360203

Subfile Designators  
 Subfile type (VH), offset (0049), length (0046)  
 VH00490046

Subfile type (IN), offset (0095), length (0007)  
IN00950007  
Subfile type (ZJ), offset (0102), length (0020)  
ZJ01020020  
Subfile Data  
Subfile ID  
VH  
Field ID's and Data  
VIN (with data element separator)  
VHVADABPL265FW11429301\_  
Vehicle Make (with data element separator)  
VAKCHEV\_  
Vehicle Year (with data element separator)  
VAL1993\_  
Vehicle Model (with segment terminator)  
VAMAST\_  
Subfile ID  
IN  
Field ID's and Data  
Overall Inspection Result (with segment terminator)  
INEARP\_  
Subfile ID  
ZJ  
Field ID's and Data  
Record ID (with data element separator)  
ZJZJCSI\_  
TIN (with segment terminator)  
ZJD12345678\_



## **APPENDIX S – DIAGNOSTIC LINK CONNECTOR (DLC) MAPPING DESCRIPTION**

The mapping diagram of DLC locations contains a divided instrument panel (IP) with numbered areas. Each numbered area represents specific sections of the IP where manufacturers may have located DLCs. This document briefly clarifies the numbered locations on the mapping diagram. The State shall use this mapping diagram to catalog manufacturer responses to the recent 208 letter requesting OBD DLC locations for 96MY and future vehicles. Areas 1-3 fall within the preferred DLC location while the remaining areas, 4-8, fall into the allowable DLC location according to USEPA requirements. Areas 4-8 require that manufacturers label the vehicle in the preferred location to notify parties of the alternate connector location.

### **Preferred Location(s)**

#### **Location #1:**

This location represents a DLC positioned on the underside of the IP directly under the steering column (or approximately 150mm left or right of the steering column). Visualizing the underside of an IP divided into three equal parts from inside the passenger compartment, this represents the center section.

#### **Location #2**

This location represents a DLC positioned on the underside of the IP between the steering column and the driver side door. Visualizing the underside of an IP divided into three equal parts this represents the left section.

#### **Location #3**

This location represents a DLC positioned on the underside of the IP between the steering column and the center console. Visualizing the underside of an IP divided into three equal parts from inside the passenger compartment, this represents the right section.

### **Allowable Location(s)**

#### **Location #4**

This location represents a DLC positioned on the upper part of the IP between the steering column and the center console (but not on the center console, see location #6).

#### **Location #5**

This location represents a DLC positioned on the upper part of the IP between the steering column and the driver side door.

#### **Location #6**

This location represents a DLC positioned on the vertical section of the center console and left of the vehicle center line.

#### **Location #7**

This location represents a DLC positioned 300 mm right of the vehicle centerline either on the vertical section of the center console or on the passenger side of the vehicle.

#### **Location #8**

This location represents a DLC positioned on the horizontal section of the center console either left or right of the vehicle center line. This does not include the horizontal section of the center console that extends into the rear passenger area (see location #9).

**Location #9**

This location, not shown, represents any DLC positioned in an area other than those mentioned above (e.g., in the rear passenger area on the driver side armrest).

## APPENDIX T – SAMPLE ESCROW AGREEMENT

### ESCROW AGREEMENT

THIS AGREEMENT ("Escrow Agreement") is executed as of this \_\_\_ day of \_\_\_\_\_, 2000 ("Effective Date") by and among <> a corporation with offices at \_\_\_\_\_ ("Licensor"), STATE OF NEW JERSEY, Department of the Treasury, Division of Purchase and Property, with offices at 33 West State Street, Trenton, NJ 08625 ("State").

### RECITALS

- A. State and Licensor have entered into Contract Number \_\_\_\_\_ (the "Contract"), pursuant to which Licensor must place a copy of the source code and related documentation into escrow as further described in Schedule A (the "Escrow Items"); and
- B. Licensor wishes that the State can maintain an operational version of the Licensed System; and

NOW THEREFORE, in consideration of the promises and mutual covenants contained herein, and for other good and valuable consideration, receipt of which is hereby acknowledged, the parties agree as follows:

#### 1. **DEPOSIT OF ESCROW ITEMS.**

(a) The term "Escrow Items" as used in this Escrow Agreement means the following items:

i. **Source Code** – all the compilable high-level programming language source code version of the Licensed System, including the software, all corrections, upgrades, updates, modifications thereof as they are available, on disk or magnetic tape media in ASCII format.

ii. **Related Documentation** – all the related documentation and manuals and other instructions.

(b) Licensor agrees to deposit with the State a complete set of the Escrow Items within thirty (30) days after the Effective Date. Such deposit shall (i) consist of a sealed package certified by an authorized officer of Licensor and witnessed by a representative of the State, to contain a complete set of the Escrow Items as defined in Paragraph 1 (a) above, and (ii) be accompanied by a completed and signed copy of the Description of the Deposit attached hereto as Schedule B (the "Description of Deposit"). The State shall have the right to determine the authenticity of the contents, to witness the sealing of the package, to accompany the package to State, and to witness the deposit of the package in the State's facility. Licensor and the State shall have the same rights with respect to maintenance of the Escrow Items pursuant to Paragraph 2 hereof.

(c) The term "Deposit" as used in this Escrow Agreement means the Escrow Items, deposited with State by Licensor pursuant to this Escrow Agreement.

(d) When State receives the Deposit and the Schedule B, State will conduct a deposit inspection by visually matching the labeling of the tangible media containing the Deposit to the item descriptions and quantity listed on the Schedule B. At completion of the deposit inspection, if State determines that the labeling of the tangible media matches the item descriptions and quantity on Schedule B, State will date and sign the Schedule B and mail a copy thereof to Licensor. If State determines that the labeling does not match the item description or quantity on the Schedule B, State will (i) note the discrepancies in writing on the Schedule B; (ii) date and sign the Schedule B with the exceptions noted; and (iii) provide a copy

of the Schedule B to Licensors. State's acceptance of the deposit occurs upon the signing of the Schedule B by State.

**2. REVISIONS AND MAINTENANCE.**

(a) Licensors agree to deposit with State a copy of all the corrections, modifications, upgrades, and updates in accordance with the Contract. Such corrections shall be deposited in a sealed package certified by an authorized officer of Licensors to contain the corrections, modifications, upgrades, and updates. The deposit shall be made by Licensors within thirty (30) days of the date the corrections, modifications, upgrades, and updates were provided to the State.

(b) In the event Licensors deliver a complete replacement copy of one or all of the Escrow Items which contain(s) the most current corrections, modifications, upgrades, and updates, pursuant to the Contract or other contract between Licensors and the State, if any, Licensors shall have the right to request State to return or destroy the corresponding previously deposited Escrow Items.

(c) State shall acknowledge receipt of all corrections, modifications, upgrades, and updates to the Escrow Items by sending written acknowledgement thereof to Licensors in the form of an executed copy of the Description of Deposit.

**3. STORAGE AND SECURITY.**

(a) State shall act as custodian of the Deposit until the escrow is terminated pursuant to either Paragraph 4 or Paragraph 11 ("Termination") of this Escrow Agreement. State shall establish, under its control, a secure receptacle for the purpose of storing the Deposit.

(b) The Deposit shall remain the exclusive property of the Licensors, subject only to the licenses provided in the Contract and the Escrow Agreement.

(c) State shall not divulge, disclose or otherwise make available the Deposit to any persons other than those persons duly authorized in writing by an officer of Licensors, except as may be necessary for State's authorized representatives to perform under this Escrow Agreement, and except as otherwise provided in this Escrow Agreement.

(d) State's sole responsibility shall be to accept, store, and deliver the Deposit, in accordance with the terms and conditions of this Escrow Agreement.

(e) If any of the Deposit shall be attached, garnished or levied upon pursuant to an order of court, or the delivery thereof shall be stayed or enjoined by an order of court, or any other order, judgment or decree shall be made or entered by any court affecting the Deposit or any part thereof, State is hereby expressly authorized in its sole discretion to obey and comply with all orders, judgments or decrees so entered or issued by any court, without the necessity of inquiring whether such court had jurisdiction, and in case State obeys or complies with any such order, judgment or decree, State shall not be liable for any compliance, notwithstanding that such order, judgment or decree may subsequently be reversed, modified or vacated.

**4. RELEASE OF DEPOSIT.**

(a) Upon the occurrence of any Event of Default (as defined in Paragraph 7 "Events of Default"), the Deposit shall be released to the State within the next five (5) business days following the end of such thirty (30) day period.

(b) "Contrary Instructions" for the purposes of this Escrow Agreement means a notarized affidavit executed by an official of Licensors stating that the Event or Events of Default specified in the Notice have not occurred, or have been cured.

(c) Upon timely receipt of such Contrary Instructions, State shall not release the Deposit. Subject to Sections 11(b) and (c) hereof, State shall continue to store the Deposit until otherwise directed in writing by Licensors and State jointly, or until resolution of this dispute by a

court of competent jurisdiction, or until receipt of a notarized affidavit from an officer of the State, with a copy of the same also delivered to Licensor, that the State requires the Deposit in order to operate and maintain the corrections system. This Escrow Agreement terminates upon the release of the Deposit.

(d) The State shall have the right to make copies of the Deposit, as is reasonably necessary to perform its obligations under this Agreement. The State shall copy all copyright, nondisclosure and other proprietary notices and titles contained on the Deposit onto any copies made by the State. With all Deposit submitted to the State, Licensor shall provide any and all instructions as may be necessary to duplicate the Deposit including, but not limited to, hardware and/or software.

#### **5. REPRESENTATIONS AND WARRANTIES.**

Licensor lawfully possesses all right, title and interest to the Deposit, or has the right to license the same and grant the rights accorded to the State and State pursuant to the Contract and this Escrow Agreement, according to the terms thereof. Additionally, the Deposit is not subject to any lien or encumbrance.

#### **6. BANKRUPTCY.**

Licensor and the State acknowledge that this Escrow Agreement is an "agreement supplementary to" the license agreement embodied in the Contract, as provided in Section 365(n) of Title 11, United States Code (the "Bankruptcy Code"). Licensor acknowledges that if Licensor as a debtor in possession or a trustee in bankruptcy in a case under the Bankruptcy Code rejects the license agreement embodied in the Subcontract or this Escrow Agreement, the State may elect to retain their rights under the license agreement embodied in the Subcontract and this Escrow Agreement as provided in Section 365(n) of the Bankruptcy Code. Upon written request of the State to Licensor or the Bankruptcy Trustee, Licensor or such Bankruptcy Trustee shall not interfere with the rights of the State, as provided in the license agreement embodied in the Contract and this Escrow Agreement, including the right to obtain the Deposit from State.

#### **7. EVENTS OF DEFAULT.**

The occurrence of any of the following shall constitute an "Event of Default" for purposes of this Escrow Agreement:

(a) Licensor becomes insolvent or generally fails to pay, or admits in writing its inability to pay its debts as they become due; or

(b) Licensor applies for or consents to the appointment of a trustee, receiver or other custodian for Licensor, or makes a general assignment for the benefit of its creditors; or

(c) Any bankruptcy, reorganization, debt arrangement, or other case or proceeding under any bankruptcy or insolvency law, or any dissolution or liquidation proceedings commenced by or against Licensor, and if such case or proceeding is not commenced by Licensor, it is acquiesced in or remains undismissed for sixty days (60) days; or

(d) Licensor ceases to do business, and/or ceases to perform, support and maintain the Deposit under the Contract, the Escrow Agreement or any other applicable agreement with Licensor or the State; or

(e) The Contract is terminated for any reason, pursuant to the Contract or Subcontract terms, prior to the normal expiration dates as are set forth in the Contract; or

(f) Licensor takes any corporate or other action to authorize, or in furtherance of, any of the foregoing.

#### **8. INDEMNIFICATION.**

(a) To the extent allowed by New Jersey law, Licensors agree to defend and indemnify State and to hold State harmless from and against any and all claims, actions, and suits, whether groundless or otherwise, and from and against any and all liabilities, losses, damages, costs, charges, penalties, counsel fees, and any other expense of any other nature including, without limitation, settlement costs incurred by State on account of any act, omission, or negligence of Licensors, in respect of or with regard to this Escrow Agreement; provided, however, that the provisions hereof shall not apply solely in the event of any negligent act or omission on the part of the State.

**9. LICENSE GRANT FOR USE OF SOURCE CODE.**

Licensors grants the State, their successors and assigns, an irrevocable, nonexclusive, paid-up right and license to use, execute, reproduce, display, perform, maintain, support, upgrade and modify the Deposit, and distribute the same internally, and to prepare derivative works based on the Deposit, exclusively for the operation of the New Jersey Motor Vehicle Commission following the occurrence of an Event of Default. The State may engage the services of third parties to enable access to the benefits of the license granted herein. The provisions of this Section 9 shall survive the termination of this Escrow Agreement following the occurrence of an Event of Default.

**10. RECORDS.**

State agrees to keep complete written records of the activities undertaken and materials prepared and delivered to State pursuant to this Escrow Agreement. Licensors upon reasonable notice to State and during normal business hours, to inspect the facilities of State with respect to the physical status and condition of the Escrow Items.

**11. TERMINATION.**

The State and Licensors may terminate this Escrow Agreement by mutual written agreement, upon thirty (30) days written notice to State.

**12. GOOD FAITH RELIANCE.**

State may rely and act upon any instruction, instrument, or signature believed in good faith to be genuine, and may assume that any person purporting to give any writing, notice, respect, advice, or instruction in connection with or relating this Escrow Agreement has been duly authorized to do so

**13. NOTICE.**

All notices of Event of Default, Contrary Instructions and Termination which are required or permitted by this Escrow Agreement shall be sufficiently served by mailing the same by certified or registered mail, return receipt requested, or reputable overnight courier, to the parties at their respective addresses, as follows:

(a) State:

(b) Licensors:

**15. COUNTERPARTS**

This Escrow Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and all of which taken together shall constitute one and the same instrument.

16. **GOVERNING LAW.**

This Escrow Agreement shall be governed by and construed according to the laws of the State of New Jersey.

7. **SEVERABILITY.**

In the event any of the provisions of this Escrow Agreement shall be held by a court of competent jurisdiction to be contrary to any state or federal law, the remaining provisions of this Escrow Agreement will remain in full force and effect.

18. **HEADINGS.**

The section headings in this Escrow Agreement do not form a part of it, but are for convenience only and shall not limit or affect the meaning of the provisions.

19. **SUCCESSORS AND ASSIGNS.**

This Escrow Agreement shall be binding upon the parties hereto and their successors and assigns. However, State shall have no obligation in performing this Escrow Agreement to any successor or assign of Licensor and the State unless it receives authoritative and conclusive written evidence of the change in status of the parties.

IN WITNESS WHEREOF, the parties have executed this Escrow Agreement as of the date first above written.

LICENSOR:

<>

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

STATE OF NEW JERSEY

**Department of Treasury, Division  
Of Purchase and Property**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed and Approved as to Form

Assistant Attorney General

Schedule A

Schedule B

I certify for Licensor that the above  
described deposit has been transmitted to  
State:

Signature \_\_\_\_\_

Print Name \_\_\_\_\_

Date \_\_\_\_\_

State has inspected and accepted  
the above materials (any exceptions are  
noted above):

Signature \_\_\_\_\_

Print Name \_\_\_\_\_

Date \_\_\_\_\_