

## **7 THE APPENDICES**

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## APPENDIX A      Legal Requirements Applicable to RFPs

A number of federal and New York State laws, rules, and regulations impact on NYS procurements. The NYS Department of Law summarizes some of these requirements into Appendix A, Standard Clauses for All New York State Contracts, which is to be attached to each state contract.

Certifications for some provisions are also required. Certification statements are included in separate Appendices for the following:

Non-Collusive Bidding Certification (Appendix B)

Non Discrimination in Employment in Northern Ireland (Appendix C)

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APPENDIX A  
STANDARD CLAUSES FOR ALL  
NEW YORK STATE CONTRACTS

The parties to the attached contract, license, lease, amendment or other agreement of any kind (hereinafter, "the contract" or "this contract") agree to be bound by the following clauses which are hereby made a part of the contract (the word "Contractor" herein refers to any party other than the State, whether a contractor, licensor, licensee, lessor, lessee or any other party):

1. EXECUTORY CLAUSE. In accordance with Section 41 of the State Finance Law, the State shall have no liability under this contract to the Contractor or to anyone else beyond funds appropriated and available for this contract.
2. NON-ASSIGNMENT CLAUSE. In accordance with Section 138 of the State Finance Law, this contract may not be assigned by the Contractor or its right, title or interest therein assigned, transferred conveyed, sublet or otherwise disposed of without the previous consent, in writing, of the State and any attempts to assign the contract without the State's written consent are null and void. The Contractor may, however, assign its right to receive payment without the State's prior written consent unless this contract concerns Certificates of Participation pursuant to Article 5-A of the State Finance Law.
3. COMPTROLLER'S APPROVAL. In accordance with Section 112 of the State Finance Law (or, if this contract is with the State University or City University of New York, Section 355 or Section 6218 of the Education Law), if this contract exceeds \$15,000 (or the minimum thresholds agreed to by the Office of the State Comptroller for certain S.U.N.Y. and C.U.N.Y. contracts), or if this is an amendment for any amount to a contract which, as so amended, exceeds said statutory amount, or if, by this contract, the State agrees to give something other than money when the value or reasonably estimated value of such consideration exceeds \$10,000, it shall not be valid, effective or binding upon the State until it has been approved by the State Comptroller and filed in his office.
4. WORKERS' COMPENSATION BENEFITS. In accordance with Section 142 of the State Finance Law, this contract shall be void and of no force and effect unless the Contractor shall provide and maintain coverage during the life of this contract for the benefit of such employees as are required to be covered by the provisions of the Workers' Compensation Law.
5. NON-DISCRIMINATION REQUIREMENTS. In accordance with Article 15 of the Executive Law (also known as the Human Rights Law) and all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin, age, disability or marital status. Furthermore, in accordance with Section 220-e of the Labor Law, if this is a contract for the construction, alteration or repair of any public building or public work or for the manufacture, sale or distribution of materials, equipment or supplies, and to the extent that this contract shall be performed within the State of New York, Contractor agrees that neither it nor its subcontractors shall, by reason of race, creed, color, disability, sex, or national origin: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the work; or (b) discriminate against or intimidate any employee hired for the performance of work under this contract. If this is a building service contract as defined in Section 230 of the Labor Law, then, in accordance with Section 239 thereof, Contractor agrees that neither it nor its subcontractors shall by reason of race, creed, color, national origin, age, sex, or disability: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the work; or (b) discriminate against or intimidate any employee hired for the performance of work under this contract. Contractor is subject to fines of \$50.00 per person per day for any violation of Section 220-e or Section 239 as well as possible termination of this contract and forfeiture of all moneys due hereunder for a second or subsequent violation.
6. WAGE AND HOURS PROVISIONS. If this is a public work contract covered by Article 8 of the Labor Law or a building service contract covered by Article 9 thereof, neither Contractor's employees nor the employees of its subcontractors may be required or permitted to work more than the number of hours or days stated in said statutes, except as otherwise provided in the Labor law and as set forth in prevailing wage and supplement schedules issued by the State Labor Department. Furthermore, Contractor and its subcontractors must pay at least the prevailing wage rate and pay or provide the prevailing supplements, including the premium rates for overtime pay, as determined by the State Labor Department in accordance with the Labor Law.
7. NON-COLLUSIVE BIDDING REQUIREMENT. In accordance with Section 139-d of the State Finance Law, if this contract was awarded based upon the submission of bids, Contractor warrants, under penalty of perjury, that its bid was arrived at independently and without collusion aimed at restricting competition. Contractor further warrants that, at the time Contractor submitted its bid, an authorized and responsible person executed and delivered to the State a non-collusive bidding certification on Contractor's behalf.
8. INTERNATIONAL BOYCOTT PROHIBITION. In accordance with Section 220-f of the Labor Law and Section 139-h of the State Finance Law, if this contract exceeds \$5,000, the Contractor agrees, as a material condition of the contract, that neither the Contractor nor any substantially owned or affiliated person, firm, partnership or corporation has participated, is participating, or shall participate in an international boycott in violation of the Federal Export Administration Act of 1979 (50 USC App. Sections 2401 et seq.) or regulations thereunder. If such Contractor, or any of the aforesaid affiliates of Contractor, is convicted or is otherwise found to have violated said laws or regulations upon the final determination of the United States Commerce Department or any other appropriate agency of the United States subsequent to the contractors execution, such contract, amendment or modification thereto shall be rendered forfeit and void. The Contractor shall so notify the State Comptroller within five (5) business days of such conviction, determination or disposition of appeal (2NYCRR 105.4).
9. SET-OFF RIGHTS. The State shall have all of its common law, equitable and statutory rights of set-off. These rights shall include, but not be limited to, the State's option to withhold for the purposes of set-off any moneys due to the Contractor under this contract up to any amounts due and owing to the State with regard to this contract, any other contract with any State

department or agency, including any contract for a term commencing prior to the term of this contract, plus any amounts due and owing to the State for any other reason including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. The State shall exercise its set-off rights in accordance with normal State practices including, in cases of set-off pursuant to an audit, the finalization of such audit by the State agency, its representatives, or the State Comptroller.

10. **RECORDS.** The Contractor shall establish and maintain complete and accurate books, records, documents, accounts and other evidence directly pertinent to performance under this contract (hereinafter, collectively, "the Records"). The Records must be kept for the balance of the calendar year in which they were made and for six (6) additional years thereafter. The State Comptroller, the Attorney General and any other person or entity authorized to conduct an examination, as well as the agency or agencies involved in this contract, shall have access to the Records during normal business hours at an office of the Contractor within the State of New York or, if no such office is available, at a mutually agreeable and reasonable venue within the State, for the term specified above for the purposes of inspection, auditing and copying. The State shall take reasonable steps to protect from public disclosure any of the Records which are exempt from disclosure under Section 87 of the Public Officers Law (the "Statute") provided that: (i) the Contractor shall timely inform an appropriate State official, in writing, that said records should not be disclosed; and (ii) said records shall be sufficiently identified; and (iii) designation of said records as exempt under the Statute is reasonable. Nothing contained herein shall diminish, or in any way adversely affect, the State's right to discovery in any pending or future litigation.

11. **IDENTIFYING INFORMATION AND PRIVACY NOTIFICATION.** (a) **FEDERAL EMPLOYER IDENTIFICATION NUMBER and/or FEDERAL SOCIAL SECURITY NUMBER.** All invoices or New York State standard vouchers submitted for payment for the sale of goods or services or the lease of real or personal property to a New York State agency must include the payee's identification number, i.e., the seller's or lessor's identification number. The number is either the payee's Federal employer identification number or Federal social security number, or both such numbers when the payee has both such numbers. Failure to include this number or numbers may delay payment. Where the payee does not have such number or numbers, the payee, on its invoice or New York State standard voucher, must give the reason or reasons why the payee does not have such number or numbers.

(B) **PRIVACY NOTIFICATION.** (1) The authority to request the above personal information from a seller of goods or services or a lessor of real or personal property, and the authority to maintain such information, is found in Section 5 of the State Tax Law. Disclosure of this information by the seller or lessor to the State is mandatory. The principal purpose for which the information is collected is to enable the State to identify individuals, businesses and others who have been delinquent in filing tax returns or may have understated their tax liabilities and to generally identify persons affected by the taxes administered by the Commissioner of Taxation and Finance. The information will be used for tax administration purpose and for any other purpose authorized by law.

(2) The personal information is requested by the purchasing unit of the agency contracting to purchase the goods or services or lease "the real or personal property covered by this contract or lease. The information is maintained in New York State's Central Accounting System by the Director of Accounting Operations, Office of the State Comptroller, AESOB, Albany, New York 12236.

12. **EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITIES AND WOMEN.** In accordance with Section 312 of the Executive Law, if this contract is: (i) a written agreement or purchase order instrument, providing for a total expenditure in excess of \$25,000.00, whereby a contracting agency is committed to expend or does expend funds in return for labor, services, supplies, equipment, materials or any combination of the foregoing, to be performed for, or rendered or furnished to the contracting agency; or (ii) a written agreement in excess of \$100,000.00 whereby a contracting agency is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon; or (iii) a written agreement in excess of \$100,000.00 whereby the owner of a State assisted housing project is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon for such project, then:

(a) The Contractor will not discriminate against employees or applicants for employment because of race, creed, color, national origin, sex, age, disability or marital status, and will undertake or continue existing programs of affirmative action to ensure that minority group members and women are afforded equal employment opportunities without discrimination. Affirmative action shall mean recruitment, employment, job assignment, promotion, upgradings, demotion, transfer, layoff, or termination and rates of pay or other forms of compensation:

(b) at the request of the contracting agency, the Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of the contractor's obligations herein; and

(c) the Contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the State contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.

Contractor will include the provisions of "a", "b", and "c" above, in every subcontract over \$25,000.00 for the construction, demolition, replacement, major repair, renovation, planning or design of real property and improvements thereon (the Work) except where the Work is for the beneficial use of the Contractor. Section 312 does not apply to: (i) work, goods or services unrelated to this contract; or (ii) employment outside New York State; or (iii) banking services, insurance policies or the sale of securities. The State shall consider compliance by a contractor or subcontractor with the requirements of any federal law concerning equal employment opportunity, which effectuates the purpose of this section. The contracting agency shall determine whether the imposition of the requirements of the provisions hereof duplicate or conflict with any such federal law and if such

duplication or conflict exists, the contracting agency shall waive the applicability of Section 312 to the extent of such duplication or conflict. Contractor will comply with all duly promulgated and lawful rules and regulations of the Division of Minority and Women's Business Development pertaining hereto.

13. CONFLICTING TERMS. In the event of a conflict between the terms of the contract (including any and all attachments thereto and amendments thereof) and the terms of this Appendix A, the terms of this Appendix A shall control.

14. GOVERNING LAW. This contract shall be governed by the laws of the State of New York except where the Federal supremacy clause requires otherwise.

15. LATE PAYMENT. Timeliness of payment and any interest to be paid to Contractor for late payment shall be governed by Article XI-A of the State Finance Law to the extent required by law.

16. NO ARBITRATION. Disputes involving this contract, including the breach or alleged breach thereof, may not be submitted to binding arbitration (except where statutorily authorized), but must, instead, be heard in a court of competent jurisdiction of the State of New York.

17. SERVICE OF PROCESS. In addition to the methods of service allowed by the State Civil Practice Law & Rules ("CPLR"), Contractor hereby consents to service of process upon it by registered or certified mail, return receipt requested. Service hereunder shall be complete upon Contractor's actual receipt of process or upon the State's receipt of the return thereof by the United States Postal Service as refused or undeliverable. Contractor must promptly notify the State, in writing, of each and every change of address to which service of process can be made. Service by the State to the last known address shall be sufficient. Contractor will have thirty (30) calendar days after service hereunder is complete in which to respond.

18. PROHIBITION ON PURCHASE OF TROPICAL HARDWOODS. The Contractor certifies and warrants that all wood products to be used under this contract award will be in accordance with, but not limited to, the specifications and provisions of State Finance Law §165. (Use of Tropical Hardwoods) which prohibits purchase and use of tropical hardwoods, unless specifically exempted, by the State or any governmental agency or political subdivision or public benefit corporation. Qualification for an exemption under this law will be the responsibility of the contractor to establish to meet with the approval of the State.

In addition, when any portion of this contract involving the use of woods, whether supply or installation, is to be performed by any subcontractor, the prime Contractor will indicate and certify in the submitted bid proposal that the subcontractor has been informed and is in compliance with specifications and provisions regarding use of tropical hardwoods as detailed in §165 State Finance Law. Any such use must meet with the approval of the State, otherwise, the bid may not be considered responsive. Under bidder certifications, proof of qualification for exemption will be the responsibility of the Contractor to meet with the approval of the State.

19. MACBRIDE FAIR EMPLOYMENT PRINCIPLES. In accordance with the MacBride Fair Employment Principles (Chapter 807 of the Laws of 1992), the Contractor hereby stipulates that the Contractor either (a) has no business operations in Northern Ireland, or (b) shall take lawful steps in good faith to conduct any business operations in Northern Ireland in accordance with the MacBride Fair Employment Principles (as described in Section 165 of the New York State Finance Law), and shall permit independent monitoring of compliance with such principles.

20. OMNIBUS PROCUREMENT ACT OF 1992. It is the policy of New York State to maximize opportunities for the participation of New York State business enterprises, including minority and women-owned business enterprises as bidders, subcontractors and suppliers on its procurement contracts.

Information on the availability of New York State subcontractors and suppliers is available from:

Department of Economic Development  
Division for Small Business  
30 South Pearl Street  
Albany, New York 12245  
Tel. 518-292-5220

A directory of certified minority and women-owned business enterprises is available from:

Department of Economic Development  
Minority and Women's Business Development Division  
30 South Pearl Street  
Albany, New York 12245  
<http://www.empire.state.ny.us>

The Omnibus Procurement Act of 1992 requires that by signing this bid proposal or contract, as applicable, Contractors certify that whenever the total bid amount is greater than \$1 million:

(a) The Contractor has made reasonable efforts to encourage the participation of New York State Business Enterprises as suppliers and subcontractors, including certified minority and women-owned business enterprises, on this project, and has retained the documentation of these efforts to be provided upon request to the State;

(b) The Contractor has complied with the Federal Equal Opportunity Act of 1972 (P.L. 92-261), as amended;

(c) The Contractor agrees to make reasonable efforts to provide notification to New York State residents of employment opportunities on this project through listing any such positions with the Job Service Division of the New York State Department of Labor, or providing such notification in such manner as is consistent with existing collective bargaining contracts or agreements. The Contractor agrees to document these efforts and to provide said documentation to the State upon request; and

(d) The Contractor acknowledges notice that the State may seek to obtain offset credits from foreign countries as a result of this contract and agrees to cooperate with the State in these efforts.

21. RECIPROCITY AND SANCTIONS PROVISIONS. Bidders are hereby notified that if their principal place of business is located in a country, nation, province, state or political subdivision that penalizes New York State vendors, and if the goods or services they offer will be substantially produced or performed outside New York State, the Omnibus Procurement Act 1994 and 2000 amendments (Chapter 684 and Chapter 383, respectively) require that they be denied contracts which they would otherwise obtain. Contact the Department of Economic Development, Division for Small Business, 30 South Pearl Street, Albany New York 12245, for a current list of jurisdictions subject to this provision.

Revised November 2000

**APPENDIX B****Non-Collusive Bidding Certification**

Non-collusive bidding certification required by Section 139-d of the state finance law

**AFFIDAVIT OF NON-COLLUSION**

I hereby attest that I am the person responsible within my firm for the final decision as to the price(s) and amount of this bid or, if not, that I have written authorization, enclosed herewith, from that person to make the statements set out below on his or her behalf and on behalf of my firm.

I further attest that:

1. The price(s) and amount of this bid have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition with any other contractor, bidder or potential bidder.
2. Neither the price(s) nor the amount of this bid have been disclosed to any other firm or person who is a bidder or potential bidder on this project, and will not be disclosed prior to bid opening.
3. No attempt has been made nor will be made to solicit, cause or induce any firm or person to refrain from bidding on this project, or to submit a bid higher than the bid of this firm, or any intentionally high or non-competitive bid, or any form of complementary bid.
4. The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary bid.
5. My firm has not offered nor entered into a subcontract or agreement regarding the purchase of materials or services from any firm or person, or offered, promised or paid cash or anything of value to any firm or person, whether in connection with this or any other project, in consideration for an agreement or promise by any firm or person to refrain from bidding or to submit a complementary bid on this project.

**Exhibit 1. Non-Collusive Bidding Certification 2**

6. My firm has not accepted nor been promised any subcontract or agreement regarding the sale of materials or services to any firm or person, and has not been promised or paid cash or anything of value by any firm or person, whether in connection with this or any other project, in consideration for my firm's submitting a complementary bid, or agreeing to do so, on this project.
7. I have made a diligent inquiry of all members, officers, employees and agents of my firm with responsibilities relating to the preparation, approval or submission of my firm's bid on this project and have been advised by each of them that he or she has not participated in any communication, consultation, discussion, agreement, collusion, act or other conduct inconsistent with any of the statements and representations made in this affidavit.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
NAME TYPED

\_\_\_\_\_  
COMPANY POSITION

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
DATE SIGNED

Sworn to before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Notary Public

**NOTE: This form is to be submitted with the bidder's proposal, Volume 2, Part 5 on May 6, 2003.**

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**APPENDIX C Non-Discrimination in Employment in Northern Ireland**

NONDISCRIMINATION IN EMPLOYMENT IN NORTHERN IRELAND:

MACBRIDE FAIR EMPLOYMENT PRINCIPLES

*(See Appendix A, Section 19)*

In accordance with Section 165 of the State Finance Law, the bidder, by submission of this bid certifies that it or any individual or legal entity in which the bidder holds a 10% or greater ownership interest, or any individual or legal entity that holds a 10% or greater ownership in the bidder, either: (answer yes or no to one or both of the following, as applicable).

(1) has business operations in Northern Ireland:

Yes \_\_\_ or No \_\_\_

if yes:

(2) shall take lawful steps in good faith to conduct any business operations that it has in Northern Ireland in accordance with the MacBride Fair Employment Principles relating to nondiscrimination in employment and freedom of workplace opportunity regarding such operations in Northern Ireland, and shall permit independent monitoring of their compliance with such Principles.

Yes \_\_\_ or No \_\_\_

\_\_\_\_\_  
Signature

**NOTE:** This form is to be submitted with the bidder's proposal, Volume 2, Part 5 on May 6, 2003.

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- ◇ COST PROPOSAL SUMMARY FORM
- ◇ VENDOR RESPONSIBILITY QUESTIONNAIRE
- ◇ INTENT TO BID
- ◇ CONFIDENTIALITY AGREEMENT / CERTIFICATE OF NONDISCLOSURE
- ◇ BIDDERS CONFERENCE ATTENDANCE FORM
- ◇ SOFTWARE and HARDWARE TECHNICAL SUMMARY
- ◇ SOFTWARE and HARDWARE COST SUMMARY
- ◇ SAMPLE LETTER OF CREDIT
- ◇ KEY REQUIREMENT CHECKLIST

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## COST PROPOSAL SUMMARY FORM

The following price will be used in evaluation the cost of the proposal:	
<u>Description:</u>	<u>Mandatory Proposal Price Per Call *</u>
TOTAL COST PER Call	\$ _____ -

\*Cost per call includes all of the proposer's costs to carry out the inspection program, including but not limited to: delivery and installation of station purchased NY-VIP systems, communications network and telecommunications costs, data servers, help desk and service staff, software development and ongoing updates and enhancements, equipment fund, insurances, software escrow account, marketing campaign, and letter of credit.

Federal ID Number	Signature		
Date	Printed or Typed Copy of Signature	Official Title	
Company Name	Phone Number		
Street Address	City	State	Zip Code

**NOTE:** This form is to be submitted with the bidder's proposal, in a sealed envelope, with the Software and Hardware Cost Summary Form on May 6, 2003.

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New York State -Department of Motor Vehicles  
6 Empire State Plaza  
Albany, New York 12228

VENDOR RESPONSIBILITY QUESTIONNAIRE

BIDDER: \_\_\_\_\_

**INSTRUCTIONS:** Please complete this form answering every question. Companies are responsible for updating information in their Responsibility Questionnaire as changes occur. Any vendor recommended for an award on a New York State Contract will be required to have this form on file prior to the award date.

**BIDDERS PLEASE ANSWER THE FOLLOWING QUESTIONS:**

1. Are you a New York State resident business: \_\_\_\_\_ YES \_\_\_\_\_ NO
2. Total number of people employed by your firm: \_\_\_\_\_
3. Total number of people employed by your firm in New York State: \_\_\_\_\_
4. Is your company independently owned and operated: \_\_\_\_\_ YES \_\_\_\_\_ NO

Place of Manufacture of Product(s) Bid:  
(Please indicate YES or NO for either A, B or C)

- |  |           |          |
|--|-----------|----------|
| A. All NYS Manufacture                 | _____ YES | _____ NO |
| B. All Manufactured Outside NYS        | _____ YES | _____ NO |
| C. Manufactured In NYS and Outside NYS | _____ YES | _____ NO |

If Yes, Location (State) where more than half the value is added to the product(s) bid:

State of \_\_\_\_\_

Bidder's Principal Place of Business \*:

State of \_\_\_\_\_

\* "Principal Place of Business" is the location of the primary control, direction and management of the enterprise.

For questions 5 through 25, within the past 5 years has the firm, predecessor company or entity, any affiliate, any owner or officer or major stockholder (5% or more shares) or any person involved in the bidding or contracting process been the subject of any of the following: (A "yes" answer to any question requires a written explanation attached to the questionnaire and submitted on company letterhead signed by an officer of the company.)

5. Any other federal or state citations, Notices, violation orders, pending administrative hearings or proceedings, or determinations of a violation of any labor law or regulation? \_\_\_\_\_ YES \_\_\_\_\_ NO
6. Any criminal investigation, felony indictment or conviction concerning formation of, or any business association with, an allegedly false or fraudulent women's, minority or disadvantaged business enterprise? \_\_\_\_\_ YES \_\_\_\_\_ NO

7. Any denial, decertification, revocation or forfeiture of Women's Business Enterprise, Minority Business Enterprise or Disadvantaged Business Enterprise status? \_\_\_\_\_ YES \_\_\_\_\_ NO
8. Rejection of a low bid on a local, state or federal contract for failure to meet statutory affirmative action or M/WBE requirements on a previously held contract? \_\_\_\_\_ YES \_\_\_\_\_ NO
9. Any firm-related bankruptcy proceeding? \_\_\_\_\_ YES \_\_\_\_\_ NO
10. A sanction imposed as a result of judicial or administrative proceedings relative to any business or professional license? \_\_\_\_\_ YES \_\_\_\_\_ NO
11. A judgment or conviction for any business-related conduct constituting a crime under local, state or federal law including, but not limited to, fraud, extortion, bribery, racketeering, price-fixing, or bid collusion? \_\_\_\_\_ YES \_\_\_\_\_ NO
12. Criminal investigation or indictment for any business related conduct constituting a crime under local, state or federal law including, but not limited to, fraud, extortion, bribery, racketeering, price-fixing, or bid collusion? \_\_\_\_\_ YES \_\_\_\_\_ NO
13. Unsatisfied judgment, injunction or lien obtained by a government agency including, but not limited to, judgments based on taxes owed and fines and penalties assessed by a governmental agency? \_\_\_\_\_ YES \_\_\_\_\_ NO
14. An investigation for a civil violation by any local, state or federal agency? \_\_\_\_\_ YES \_\_\_\_\_ NO
15. A grant of immunity for any business-related conduct constituting a crime under local, state or federal law including, but not limited to, fraud, extortion, bribery, racketeering, price-fixing, or bid collusion? \_\_\_\_\_ YES \_\_\_\_\_ NO
16. A local, state, or federal suspension, debarment or termination from the contract process? \_\_\_\_\_ YES \_\_\_\_\_ NO
17. A local, state or federal contract suspension or termination for cause prior to the completion of the term of a contract? \_\_\_\_\_ YES \_\_\_\_\_ NO
18. A local, state or federal denial of award for non-responsibility? \_\_\_\_\_ YES \_\_\_\_\_ NO
19. An agreement to a voluntary exclusion from bidding/contracting? \_\_\_\_\_ YES \_\_\_\_\_ NO
20. An administrative proceeding or civil action seeking specific performance or restitution in connection with any local, state or federal contract? \_\_\_\_\_ YES \_\_\_\_\_ NO
21. A consent order with the NYS Department of Environmental Conservation, or a federal, state or local government enforcement determination involving a violation of federal, state or local government laws? \_\_\_\_\_ YES \_\_\_\_\_ NO
22. A rejection of a bid on a NYS contract for failure to comply with the McBride Fair Employment Principles? \_\_\_\_\_ YES \_\_\_\_\_ NO
23. Agency complaints or reports of contractual deviation received within the past two years for contract performance issues arising out of a contract with a federal, state or local contract? \_\_\_\_\_ YES \_\_\_\_\_ NO
24. Disqualified from receiving a local, state or federal contract award for failure to perform satisfactorily in connection with public bidding? \_\_\_\_\_ YES \_\_\_\_\_ NO
25. Any citations, Notices, violation orders, pending administrative hearings or proceedings or determinations or violations of:

- Federal, state or local health laws, rules or regulations \_\_\_\_\_ YES \_\_\_\_\_ NO
- Unemployment insurance or workers compensation coverage or claim requirements \_\_\_\_\_ YES \_\_\_\_\_ NO
- ERISA (Employee Retirement Income Security Act) \_\_\_\_\_ YES \_\_\_\_\_ NO
- Federal, state or local human rights laws \_\_\_\_\_ YES \_\_\_\_\_ NO
- Federal or state security laws? \_\_\_\_\_ YES \_\_\_\_\_ NO
- Federal INS and Alienage laws \_\_\_\_\_ YES \_\_\_\_\_ NO
- Sherman Act or other federal anti-trust laws \_\_\_\_\_ YES \_\_\_\_\_ NO

**CERTIFICATION:**

The undersigned recognizes that the questionnaire is submitted for the express purpose of assisting the State of New York or its agencies or political subdivisions to make a determination regarding either an application for placement on a mailing list or the status of an existing mailing list entry or to award a contract or approve a subcontract; acknowledge that the state or its agencies and political subdivisions may in its discretion, by means which it may choose, verify the truth and accuracy of all statements made herein; acknowledges that intentional submission of false or misleading information may constitute a felony under Penal Law section 210.40 or a misdemeanor under Penal Law Section 210.35 or Section 210.45, and may also be punishable by a fine up to \$10,000 or imprisonment of up to 5 years under 18 USC Section 1001; and states that the information submitted in this questionnaire and any attached pages is true, accurate and complete.

\_\_\_\_\_  
Name of Business

\_\_\_\_\_  
Signature of Officer

\_\_\_\_\_  
Address

\_\_\_\_\_  
Typed Copy of Signature

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Title

**NOTE:** This form is to be submitted with the bidder's proposal, Volume 2, Part 6 by May 6, 2003, 2pm.

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**INTENT TO BID  
FOR DESIGN AND IMPLEMENTATION OF THE  
NEW YORK STATE DEPARTMENT OF MOTOR VEHICLES  
VEHICLE INSPECTION PROGRAM SYSTEM**

\_\_\_\_\_ of \_\_\_\_\_  
*(Company Name)* *(Company Address)*

intends to submit a proposal in response to the Request for Proposal for the NYS Vehicle Inspection Program System.

\_\_\_\_\_ *(Signature)* \_\_\_\_\_ *(Date)*

\_\_\_\_\_ *(Printed or Typed Copy of Signature)*

\_\_\_\_\_ *(Official Title)* (\_\_\_\_\_) \_\_\_\_\_ *(Phone Number)*

\_\_\_\_\_ *(E-Mail Address)* (\_\_\_\_\_) \_\_\_\_\_ *(FAX Number)*

**NOTE:** This form is to be submitted to DMV's contract manager on or before April 29, 2003.

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NY-VIP  
MANDATORY BIDDERS CONFERENCE  
ATTENDANCE FORM  
(See RFP, Section 1-9)

**MANDATORY BIDDER'S CONFERENCE**

Bidders are required to attend a mandatory bidder's conference to be held in Albany, NY on Tuesday, April 8, 2003 at 10:30 am. Bidders are limited to five persons per company; although potential subcontractors can be considered a separate company for the purposes of attendance, the subcontractors must register separately. To assist NYS in ensuring sufficient space and materials are available to all participants—bidders are required to complete information below and fax this form to Heather Rhoads at DMV at (518) 402-2320 by noon, EST on Tuesday, April 1, 2003.

POTENTIAL BIDDER: \_\_\_\_\_  
(COMPANY NAME)

PERSON RESPONDING: \_\_\_\_\_  
PHONE NUMBER OF RESPONDER: (\_\_\_\_) \_\_\_\_\_  
FAX NUMBER FOR RESPONSE: (\_\_\_\_) \_\_\_\_\_

EMAIL ADDRESS FOR RESPONSE: \_\_\_\_\_

"FAX TO"/"EMAIL" NAME: \_\_\_\_\_

ANTICIPATED CORPORATE REPRESENTATIVES:

NAME	TITLE
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

NYS recognizes that staff identified prior to 4/1/03 may not be those who actually attend the bidder's conference on 4/08/03. NYS will accept one for one substitution, so long as the company limits the number of attendees to five.

NOTE: NYS will fax the location, directions and parking information to bidder's at the fax number or email address indicated above on Friday, April 4th.

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## SOFTWARE and HARDWARE TECHNICAL SUMMARY

Instructions: Bidders must indicate type of solution bid, hardware and software specifications (including version number, GB, MB, speeds, dpi, etc. where indicated), number of units required to install, configure and maintain the system. For hardware and software that is not specifically listed, but needs to be considered as part of the solution, please list on the blank lines provided at the appropriate section or attach additional sheets.

Solution Bid: \_\_\_\_\_ Communications Platform (Dial Up/Internet)

\_\_\_\_\_ Database Software

<i>Described in Section Number:</i>	<i>Hardware &amp; Software Specified/Detailed</i>	<i># Required</i>
	STATION HARDWARE (MANDATORY)	
	PC/PDA Make: _____ Model: _____	
	_____ GHz Processor	
	_____ B Processor Cache	
	_____ B Hard Drive	
	_____ X CD ROM Drive	
	_____ Kbps Modem	
	Type input Device(s): _____	
	Slots: _____ PCI _____ PC/ISA	
	Other: _____	
	Other Features: _____	
	_____	
	Monitor: Make: _____ Model: _____	
	_____ " Monitor with _____ " diagonal display	
	With tilt n/ swivel base	
	Other Features: _____	
	_____	
	Printer Make: _____ Model: _____	
	_____ PPM x _____ DPI	
	(Tray) Sheet Capacity _____	
	_____	
	UPS Make: _____ Model # _____	
	_____	
	Bar Code Scanner: Make: _____	
	Model: _____	
	Cable Type: _____	
	Cable Length: _____	
	Interface: _____	
	Decode Capability (1D): _____	
	Decode Capability (2D): _____	
	Scan Tool Make: _____	

<i>Described in Section Number:</i>	<i>Hardware &amp; Software Specified/Detailed</i>	<i># Required</i>
	Model:	
	OBDII Interfaces Supported:	
	DTCs Read (Y/N): Clear(Y/N):	
	Freeze Frame Read: Clear:	
	MIL: Read: Reset:	
	Readiness Read: Reset:	
	Reads Generic Codes (Y/N):	
	Reads Mfg. Codes (list mfgs):	
	% Vehicles Can Be Read	
	Other Features:	
	DLC Connector Type:	
	Length of Cable:	
	Other Features:	
	STATION SOFTWARE:	
	Operating System: Version:	
	Browser Type: Version:	
	Virus Detection: Version:	
	Application Software:	
	Application Development Tool: _____	
	OTHER (e.g. cabinet, cables, software, etc):	
3-9	OPTIONAL HARDWARE/SOFTWARE	Attach additional Sheets as needed.
	CONTRACTOR HARDWARE:	
	Data Server Make: Model:	
	GHz Processor	
	B Processor Cache	
	B Hard Drive	
	X CD ROM Drive	

<i>Described in Section Number:</i>	<i>Hardware &amp; Software Specified/Detailed</i>	<i># Required</i>
	Slots: PCI PC/ISA	
	Other:	
	Other Features:	
	Monitor: Make: Model:	
	" Monitor with " diagonal display	
	With tilt n/ swivel base	
	Other Features:	
	UPS Make: Model #	
	Back Up System: Make:	
	Model:	
	Capacity	
	Comm Server Make: Model:	
	MHz Processor	
	K Processor Cache	
	B Hard Drive	
	X CD ROM Drive	
	Slots: PCI PC/ISA	
	Other:	
	Line capacity Modems	
	Other Features:	
	OTHER NETWORK HARDWARE:	
	SOFTWARE:	
	Database: Version:	
	Development Tool(s):	
	Messaging: Version:	
	Project management: Vers:	

NOTE: This form is to be submitted with the bidder's proposal, Volume 1, Part 4 by May 6, 2003, 2pm.

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## SOFTWARE and HARDWARE COST SUMMARY

Instructions: Bidders must indicate type of solution bid, hardware and software specifications (including version number, GB, MB, speeds, dpi, etc. where indicated), number of units required, unit cost and total cost of all hardware, and software required to install, configure and maintain the system. For hardware and software that is not specifically listed, but needs to be considered as part of the solution, please list on the blank lines provided at the appropriate section or attach additional pages.

<i>Described in Section Number:</i>	<i>Hardware &amp; Software Specified/Detailed</i>	<i># Required</i>	<i>Unit Cost</i>	<i>Total Cost</i>
	STATION HARDWARE			
	PC/PDA Make:                      Model:			
	GHz Processor			
	B Processor Cache			
	B Hard Drive			
	X CD ROM Drive			
	KBps Modem			
	Type input Device(s):			
	Slots:            PCI                      PC/ISA			
	Other:			
	Other Features:			
	Monitor: Make:                      Model:			
	" Monitor with " diagonal display			
	With tilt n/ swivel base			
	Other Features:			
	Printer Make: _____			
	Model:			
	PPM                      x                      DPI			
	(Tray) Sheet Capacity			
	UPS Make: _____ Model #			
	Bar Code Scanner: Make:			
	Model:			
	Cable Type: _____			
	Cable Length:			
	Interface:			
	Decode Capability (1D):			
	Decode Capability (2D):			
	Scan Tool Make:			

<i>Described in Section Number:</i>	<i>Hardware &amp; Software Specified/Detailed</i>	<i># Required</i>	<i>Unit Cost</i>	<i>Total Cost</i>
	Model:			
	OBDII Interfaces Supported:			
	DTCs Read (Y/N): Clear(Y/N):			
	Freeze Frame Read: Clear:			
	MIL: Read: Reset:			
	Readiness Read: Reset:			
	Reads Generic Codes (Y/N):			
	Reads Mfg. Codes (list mfgs):			
	% Vehicles Can Be Read			
	Other Features:			
	DLC Connector Type:			
	Length of Cable:			
	Other Features:			
	STATION SOFTWARE:			
	Operating System: Version:			
	Browser Type: Version:			
	Virus Detection: Version:			
	Application Software:			
	Application Development Tool:			
	OTHER (e.g. cabinet, cables, software, etc):			

<i>Described in Section Number:</i>	<i>Hardware &amp; Software Specified/Detailed</i>	<i># Required</i>	<i>Unit Cost</i>	<i>Total Cost</i>
	CONTRACTOR HARDWARE:			
	Data Server Make:                      Model:			
	GHz Processor			
	B Processor Cache			
	B Hard Drive			
	X CD ROM Drive			
	Slots:    PCI            PC/ISA			
	Other:			
	Other Features:			
	Monitor: Make:                      Model:			
	_____ " Monitor with _____ " diagonal display			
	With tilt n/ swivel base			
	Other Features:			
	UPS Make:                      Model #			
	Back Up System: Make:			
	Model:			
	Capacity			
	Comm Server Make:                      Model:			
	MHz Processor			
	K Processor Cache			
	B Hard Drive			
	X CD ROM Drive			
	Slots:    PCI            PC/ISA			
	Other:			
	Line capacity                      Modems			
	Other Features:			
	OTHER NETWORK HARDWARE:			
	SOFTWARE:			
	Database: _____			
	Version:			
	Development Tool(s):			
	Messaging:                      Version:			
	Project management:                      Vers:			



**SAMPLE LETTER OF CREDIT**

\*\*\* Bank of New York  
Letter of Credit Department  
\*\*\* Street  
Albany, NY 12207-1501

Swift:  
Telex:  
Fax:  
Phone:

Date:\*\*\*

Irrevocable Standby Letter of Credit No.\*\*\*

Beneficiary  
New York State  
Department of Motor Vehicles  
Expenditure Accounting Section  
Room 137  
Governor George E. Pataki  
6 Empire State Plaza  
Albany, NY 12228  
Attn.: Ms. Heather Rhoads

Applicant  
\*\*\*  
\*\*\*  
\*\*\*  
Contractor

Ladies and Gentlemen:

We hereby authorize you to draw your drafts at sight on \*\*\* Bank of New York, Albany, New York, up to an aggregate amount of US \$\*\*\* (\*\* million and \*\*/100 US Dollars), bearing clause "Drawn under \*\*\* Bank of New York, Albany, New York Letter of Credit No. \*\*\* dated \*\*\*".

Your drafts must be accompanied by your dated statement, purportedly signed by an authorized official/representative of New York State Department of Motor Vehicles, indicating name and title reading:

"The undersigned hereby certifies that the amount drawn represents any losses, expenses, or damages as associated reporters \*\*\*, Inc.'s has failed to perform in accordance with the terms of the agreement dated \*\*\* y and between \*\*\* Inc. and New York State Department of Motor Vehicles.

Partial drawings are permitted.

Presentation of the original Letter of Credit and any amendments thereto are required for any drawings hereunder.

It is a condition of this Credit that it shall be deemed automatically extended without amendment for \*\*\*year from the present or any future expiration date hereof, but in no event later than its ultimate expiration date of \*\*\*, unless at least thirty (30) days prior to any such date we shall notify you in writing at the above address via courier/express/certified mail return receipt requested that we elect not to so renew this Letter of Credit for any such additional period.

This Letter of Credit sets forth in full the terms of our undertaking and such an undertaking shall not in any way be modified, amended or amplified by reference to any documents, instruments or agreements referred to herein, or in which this Letter of Credit is referred to or which this Letter of Credit relates and any such reference shall not be deemed to incorporate herein by reference any such documents, instruments or agreements.

Page 2 which forms an integral part of Irrevocable Standby L/C No. \*\*\*

Except so far as otherwise expressly stated, this standby Letter of Credit is subject to the "uniform customs and practice for documentary credits" (1993 revision) International Chamber of Commerce, publication No. 500 and where not applicable, this letter of Credit is governed by the laws of the State of New York.

We hereby engage with you that all drafts and documents drawn under and in compliance with the terms of this Credit will be duly honored by us on delivery of documents as specified if presented at \*\*\* Bank of New York, International Division, Letter of Credit Department, \*\*\* Street, Albany, New York \*\*\* on or before the expiration date of \*\*\* or any automatically extended date as hereinbefore set forth, but in no event later than its ultimate expiration date of \*\*\*.

Yours Faithfully,  
\*\*\* Bank of New York

Authorized Signature

Print Name

---

Authorized Signature

Print Name

**NOTE: The winning bidder will be required to submit a letter of credit upon the signing of the contract.**

## KEY REQUIREMENT CHECKLIST

The requirements below have been identified as critical. Failure to submit these requirements will result in vendor disqualification. Please check whether the following is included in the bidders proposal.

	Included in Proposal	
1. Hardware specified is compatible with existing DMV and DEC platforms and environments (Windows).	Yes ___	No ___
2. Software specified is compatible with existing DMV and DEC systems (Windows, Oracle and Microsoft SQL Server).	Yes ___	No ___
3. Project plan is complete with specified milestones and within the time allowed	Yes ___	No ___
4. Bidder has specified appropriate project staff which meet minimum experience requirements detailed in Section 1-3 of the RFP and included staff resumes.	Yes ___	No ___
5. Bidder has specified the use of MQ Series within their proposal.	Yes ___	No ___
6. Bidder has included appendices that are required.	Yes ___	No ___
7. Bidder has addressed all the required security components from the RFP within their proposal.	Yes ___	No ___

\_\_\_\_\_ (company name) certifies that the information submitted in the proposal is accurate and complete and includes the above key requirements.

\_\_\_\_\_  
Signature of Officer

\_\_\_\_\_  
Print or Type Name

**NOTE: This form is to be submitted with the bidder's proposal in Volume I, Part 1, on May 6, 2003.**

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## APPENDIX E Corporate Experience and Reference Forms

### NYS Department of Motor Vehicles Corporate Experience and Reference

#### Instructions

DMV and DEC requires substantial experience and expertise, and bidders must demonstrate that experience through verifiable references. The experience must be current, and must be for projects comparable, in scale and scope, to the minimum requirements. Bidders must complete as many Corporate Experience and Reference Forms as are required to demonstrate how the bidder meets the minimum requirements and has experience comparable in scale and scope to DMV's project as explained in Section 1-3. At least three projects must be described, with one clearly indicating a collaborative effort. If a subcontractor's past performances are used to meet a minimum requirement, it should be clear which company or individual performed the work and at what company/entity the work was performed. This must be clearly indicated on both the project forms and the matrix.

Detailed description of work performed for each of the 3 projects including:

- Whether experience was for individual or company (clearly identify under "Name of Bidder")
- Number of staff involved (ongoing and peak levels)
- Project Manager
- Work accomplished\**
- Performance standards used to measure contractor performance
- Technical environment
- Number of Inspection Facilities supported in this project.
- All services provided

*\*The bidder should provide a complete description of the projects being supplied as proof of required experience and as references. The projects must be specific and identify which of the minimum experience requirements it references.*

Attach additional pages as needed.



## CORPORATE EXPERIENCE AND REFERENCE MATRIX

**Instructions:** Please list the name of the organization or company from the Experience and Reference forms whose experience and references meet DMV/DEC minimum qualifications. Check (x) the specific areas within a particular project that meet DMV/DEC qualifications. Attach additional forms or explanations if necessary.

Page 1 of 2

<i>Minimum Qualifications From Section 1-3</i>	<i>Company Where Work Performed:</i>	<i>Company Where Work Performed:</i>	<i>Company Where Work Performed:</i>	<i>Company Where Work Performed</i>
1. Project Manager has minimum of 5 years of professional experience managing emissions projects and 5 years experience in system integration and application development.				
2. Database Administrator has at least 5 years database administration experience, with at least two years experience in the software the company is recommending.				
3. Experience in all phases of a project design including Requirement Analysis, System Design, Database Design and Implementation and Application Development.				
4. Experience in large systems design that involves implementations with over 100 users on different local and/or wide area networks and access to multiple databases with over two hundred thousand combined records.				
5. System management including maintenance and feedback loops for system administration and update alerts, system administration, user and system documentation including on-line help and installation of computer hardware including servers, networks, workstations/personal computers and other devices.				
6. Experience with hardware and software used in DMV/DEC environment including software such as MS SQL Server, XML, MQ Series, Powerbuilder, Cold Fusion, Windows/9x, Windows/NT, MQ Series, TCP/IPFoxpro, Oracle, and Oracle Forms and Oracle reports.				

<i>Minimum Qualifications From Section 1-3</i>	<i>Company Where Work Performed:</i>	<i>Company Where Work Performed:</i>	<i>Company Where Work Performed:</i>	<i>Company Where Work Performed</i>
7. Experience in integrating new network hardware and software with existing LAN and WANS across multiple platforms in multiple locations.				
8. Experience with developing and maintaining a service network capable of supporting multiple customers with timely equipment installation and service.				

NOTE: This form is to be submitted with the bidder's proposal, in Volume 1, Part 1, by May 6, 2003, 2:00 pm.

MV-15 DPPA (7/97)

DRIVER'S PRIVACY PROTECTION ACT

(18 U.S.C. §2721 et. Seq.)

PROHIBITION ON RELEASE AND USE OF CERTAIN PERSONAL INFORMATION  
FROM STATE MOTOR VEHICLE RECORDSSec. 2721. Prohibition on release and use of certain personal information from state motor vehicle records.

- (a) In General. - Except as provided in subsection (b), a State department of motor vehicles, and any officer, employee, or contractor, thereof, shall not knowingly disclose or otherwise make available to any other person or entity personal information about any individual obtained by the department in connection with a motor vehicle record.
- (b) Permissible Uses. - Personal information referred to in subsection (a) shall be disclosed for use in connection with matters of motor vehicle or driver safety and theft, motor vehicle emissions, motor vehicle product alternation, recalls, or advisories, performance monitoring of motor vehicles and dealers by motor vehicle manufacturers, and removal of non-owner records from the original owner records of motor vehicle manufacturers to carry out the purposes of the Automobile Information Disclosure Act, the Motor Vehicle Information and Cost Saving Act, the National Traffic and Motor Vehicle Safety Act of 1996, the Anti-Car Theft Act of 1992, and the Clean Air Act, and may be disclosed as follows:
- (1) For use by any government agency, including any court or law enforcement agency, in carrying out its functions, or any private person or entity acting on behalf of a Federal, State, or local agency in carrying out its functions.
  - (2) For use in connection with matters of motor vehicle or driver safety and theft; motor vehicle emissions; motor vehicle product alterations, recalls, or advisories; performance monitoring of motor vehicle product alterations, recalls, or advisories; performance monitoring of motor vehicles, motor vehicle parts and dealers; motor vehicle market research activities, including survey research; and removal of non-owner records from the original owner records of motor vehicle manufacturers.
  - (3) For use in the normal course of business by a legitimate business or its agents, employees, or contractors, but only -
    - (A) to verify the accuracy of personal information submitted by the individual to the business or its agents, employees, or contractors; and
    - (B) if such information as so submitted is not correct or is no longer correct, to obtain the correct information, but only for the purposes of preventing fraud by, pursuing legal remedies against, or recovering on a debt or security interest against, the individual.
  - (4) For use in connection with any civil, criminal, administrative, or arbitral proceeding in any Federal, State, or local court or agency or before any self-regulatory body, including the service of process, investigation in anticipation of litigation, and the execution or enforcement of judgments and orders, or pursuant to an order of a Federal, State, or local court.
  - (5) For use in research activities, and for use in producing statistical reports, so long as the personal information is not published, redisclosed, or used to contact individuals.
  - (6) For use by any insurer or insurance support organization, or by a self-insured entity, or its agents, employees, or contractors, in connection with claims investigation activities, antifraud activities, rating or underwriting.
  - (7) For use in providing notice to the owners of towed or impounded vehicles.
  - (8) For use by any licensed private investigative agency or licensed security service for any purpose permitted under this subsection.
  - (9) For use by an employer or its agent or insurer to obtain or verify information relating to a holder of a commercial driver's license that is required under the commercial Motor Vehicle Safety Act of 1986 (49 U.S.C. App. 2710 et seq.).
  - (10) For use in connection with the operation of private toll transportation facilities.
  - (11) For any other use in response to requests for individual motor vehicle records if the motor vehicle department has provided in a clear and conspicuous manner on forms for issuance or renewal of operator's permits, titles, registrations, or identification cards, notice that personal information collected by the department may be disclosed to any business or person, and has provided in a clear and conspicuous manner on such forms an opportunity to prohibit such disclosures.

- (12) For bulk distribution for surveys, marketing or solicitations if the motor vehicle department has implemented methods and procedures to ensure that -
- (A) individuals are provided an opportunity, in a clear and conspicuous manner, to prohibit such uses; and
  - (B) the information will be used, rented, or sold solely for bulk distribution for surveys, marketing, and solicitations, and that surveys, marketing, and solicitations will not be directed at those individuals who have requested in a timely fashion that they not be directed at them.
- (13) For use by any requester, if the requester demonstrates it has obtained the written consent of the individual to whom the information pertains.
- (14) For any other use specifically authorized under the law of the State that holds the record, if such use is related to the operation of a motor vehicle or public safety.
- (c) Resale or Redisclosure. - Authorized recipient of personal information {except a recipient under subsection (b)(11) or (12)} may resell or redisclose the information only for a use permitted under subsection (b) {but not for uses under subsection (b) (11) or (12)}. An authorized recipient under subsection (b) (11) may resell or disclose personal information for any purpose. An authorized recipient under subsection (b)(12) may resell or redisclose personal information pursuant to subsection (b)(12). Any authorized recipient {except a recipient under subsection (b)(11)} that resells or rediscloses personal information covered by this title must keep for a period of 5 years records identifying each person or entity that receives information and the permitted purpose for which the information will be used and must make such records available to the motor vehicle department upon request.
- (d) Waiver procedures. - A State motor vehicle department may establish and carry out procedures under which the department or its agents, upon receiving a request for personal information that does not fall within one of the exceptions in subsection (b), may mail a copy of the request to the individual about whom the information was requested, informing such individual of the request, together with a statement to the effect that the information will not be released unless the individual waives such individual's right to privacy under this section.

#### Sec. 2722. Additional unlawful acts

- (a) Procurement for Unlawful Purpose. - It shall be unlawful for any person knowingly to obtain or disclose personal information, from a motor vehicle record, for any use not permitted under section 2721(b) of this title.
- (b) False Representation. - It shall be unlawful for any person to make false representation to obtain any personal information from an individual's motor vehicle record.

#### Sec. 2723. Penalties

- (a) Criminal Fine. - A person who knowingly violates this chapter shall be fined under this title.
- (b) Violations by State Department of Motor Vehicles. - Any State department of motor vehicles that has a policy or practice of substantial noncompliance with this chapter shall be subject to a civil penalty imposed by the Attorney General of not more than \$5,000 a day for each day of substantial noncompliance.

#### Sec. 2724. Civil action

- (a) Cause of Action. - A person who knowingly obtains, discloses or uses personal information, from a motor record, for a purpose not permitted under this chapter shall be liable to the individual to whom the information pertains, who may bring a civil action in a United States district court.
- (b) Remedies. - the court may award -
  - (1) actual damages, but not less than liquidated damages in the amount of \$2,500;
  - (2) punitive damages upon proof of willful or reckless disregard of the law;
  - (3) reasonable attorneys' fees and other litigation costs reasonably incurred; and
  - (4) such other preliminary and equitable relief as the court determines to be appropriate.

#### Sec. 2725. Definitions

In this chapter -

- (1) "motor vehicle record" means any record that pertains to a motor vehicle operator's permit, motor vehicle title, motor vehicle registration, or identification card issued by a department of motor vehicles;
- (2) "person" means an individual, organization or entity; but does not include a State or agency thereof; and
- (3) "personal information" means information that identifies an individual, including an individual's photograph, social security number, driver identification number, name, address (but not the 5-digit zip code), telephone number, and medical or disability information, but does not include information on vehicular accidents, driving violations, and driver's status.

The amendments made by section 300002 shall become effective on the date that is 3 years after the date of enactment of this Act (Sept. 13, 1994). After the effective date, if a State has implemented a procedure under section 2721 (b)(11) and (12) of title 18, United States Code, as added by section 300002(a), for prohibiting disclosures or uses of personal information, and the procedure otherwise meets the requirements of subsection (b)(11) and (12), the State shall be in compliance with subsection (b)(11) and (12) even if the procedure is not available to individuals until they renew their license, title, registration or identification card, so long as the State provides some other procedure for individuals to contact the State on their own initiative

to prohibit such uses or disclosures. Prior to the effective date, personal information covered by the amendment made by section 300002 may be released consistent with State law or practice.

Pub. L. 103-322, title XXX, Sec. 300002(a), Sept. 13, 1994, 108 Stat. 2102

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MV-15MOU (3/98) THE NEW YORK STATE DEPARTMENT OF MOTOR VEHICLES  
MEMORANDUM OF UNDERSTANDING - DRIVER'S PRIVACY PROTECTION ACT

This Memorandum of Understanding ("MOU" is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_  
(1st, 2nd, 3rd...) (month) (year)  
by and between \_\_\_\_\_, herein referred to as the  
(Name of Organization)  
"Contractor", located at \_\_\_\_\_  
(Address of Organization)  
acting herein by \_\_\_\_\_, its duly authorized  
(Person authorized to execute contracts)  
\_\_\_\_\_ and the New York State Department of Motor Vehicles, located  
(Title)  
at 6 Empire State Plaza, Albany, New York 12228 hereinafter referred to as the "Department").

This MOU pertains to records furnished by the Department to the contractor hereby mutually agree as follows:

The contractor represents and warrants that it has read the Driver's Privacy Protection Act (18 U.S.C. Sec. 2721 *et seq.*) and will comply fully with terms of such Act regarding access and use of motor vehicle records.

The contractor agrees that it shall only request and use information provided by the Department pursuant to the MOU that is specifically authorized by the Driver's Privacy Protection Act, as indicated in APPENDIX "A" of this document.

The contractor agrees to keep, for a period of 5 years, records identifying each person or entity that receives information from the Department and the permitted purpose for which the information will be used. The Department shall have the right to audit and examine such records upon reasonable notice to the contractor. The contractor agrees to make such records available to the Department for such purpose. If the contractor does not have an office location in New York State, it will forward all records requested to the Department at the time, place and location designated by the Department.

The contractor acknowledges that all personal driver records, as well as all DMV-related processing information is confidential and the property of the Department and the State of New York, and should this information be used improperly, or become compromised, the contractor may be held liable under the provisions of the Driver's Privacy Protection Act of 1994.

The contractor shall not represent themselves as agents or employees of the Department. For the purposes of this agreement, the contractor includes the officers, agents, partners, owners, and employees of the contractor.

This MOU may be executed in several duplicate copies each of which so executed shall be deemed to be an original, and all such duplicates shall constitute but one MOU binding on all parties hereto, notwithstanding that all parties are not signatories to this original or same duplicate.

\_\_\_\_\_  
Contractor (Name of Organization)  
by: \_\_\_\_\_ Date: \_\_\_\_\_  
(Signature of person named above, sign in the presence of a notary)

**ACKNOWLEDGMENTS  
TO BE COMPLETED BY CONTRACTOR**

STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_ ss.:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came \_\_\_\_\_  
to me known and, who by me being duly sworn, deposes and says: that he/she works/resides at \_\_\_\_\_  
\_\_\_\_\_; that he/she is the  
\_\_\_\_\_ of the organization described in the attached document; and that he/she signed his/her name thereto.

\_\_\_\_\_  
Notary Public

**NOTE: The winning bidder will be required to submit a signed copy of the DPPA as part of the negotiated contract.**

DMV USE ONLY

STATE OF NEW YORK COUNTY OF ALBANY ss

On this \_\_\_\_\_ day of \_\_\_\_\_, before me personally came \_\_\_\_\_

to me known and, who by me being duly sworn, deposes and says: that he/she works/resides at \_\_\_\_\_

\_\_\_\_\_ ; that he/she is the \_\_\_\_\_

of the Department of Motor Vehicles; and that he/she has signed his/her name to the attached document in his official capacity as such

\_\_\_\_\_ of the Department of Motor Vehicles

\_\_\_\_\_. Notary Public

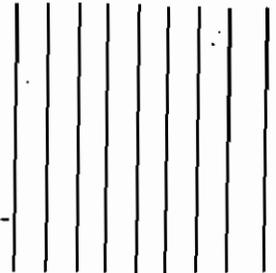
**Appendix "A"**  
**Contractor's Use(s) For Motor Vehicles Records**  
 contractor will limit its use to the items it has checked below.

- Use in connection with matters of motor vehicle or driver safety and theft, motor vehicle emissions, motor vehicle product alterations, recalls, or advisories, performance monitoring of motor vehicles and dealers by motor vehicle manufacturers, and removal of non-owner records from the original owner records of motor vehicle manufacturers to carry out the purposes of titles I and IV of the Anti Car theft Act of 1992, the Automobile Information Disclosure Act (15 U.S.C. 1231-1231 *et seq.*), the Clean Air Act (42 U.S.C. 7401 *et seq.*), and chapters 301, 305, 321-331 of title 49. [18 U.S.C. Sec. 2721(b)]
- Use by any government agency, including any court or law enforcement agency, in carrying out its functions, or any private person or entity acting on behalf of a Federal, State, or local agency in carrying out its functions. [18 U.S.C. Sec. 2721 (b)(1)]
- Use in connection with matters of:
- motor vehicle or driver safety and theft; • motor vehicle emissions; • motor vehicle product alterations, recalls, or advisories;
  - performance monitoring of motor vehicles, motor vehicle parts and dealers;
  - motor vehicle market research activities, including survey research; and
  - removal of non-owner records from the original owner records of motor vehicle manufacturers. [18 U.S.C. Sec. 2721 (b)(2)]
- Use in the normal course of business by a legitimate business or its agents, employees, or contractors in the normal course of business ONLY:
- to verify the accuracy of personal information submitted by the individual to the business; AND
  - if such information as so submitted is not correct or is no longer correct, to obtain the correct information, BUT ONLY for the purposes of preventing fraud by, pursuing legal remedies or recovering on a debt or security interest against the individual. [18 U.S.C. Sec. 2721 (b)(3)]
- Use in connection with any civil, criminal, administrative, or arbitral proceeding in any Federal, State, or local court or agency or before any self-regulating body, including:
- the service of process; • investigation in anticipation of litigation; • the execution or enforcement of judgments and orders; OR
  - pursuant to an order of a Federal, State or local court. [18 U.S.C. Sec. 2721 (b)(4)]
- Use • in research activities; and • in producing statistical reports, so long as the personal information is not published, redisclosed or used to contact individuals. [18 U.S.C. Sec. 2721 (b)(5)]
- Use by any insurer or insurance support organization, or by a self-insured entity, or its agents, employees, or contractors in connection with:
- claims investigation activities; • antifraud activities; • rating; or • underwriting. [18 U.S.C. Sec. 2721 (b)(6)]
- Use in providing notice to the owners of towed or impounded vehicles. [18 U.S.C. Sec. 2721 (b)(7)]
- Use by a licensed private investigative agency or licensed security service for any purpose permitted under the Driver's privacy Protection Act. [18 U.S.C. Sec. 2721 (b)(8)]
- Use by an employer or its agent or insurer to obtain or verify information relating to a holder of a commercial driver's license that is required under the Commercial Motor Vehicle Safety Act of 1986. [18 U.S.C. Sec. 2721 (b)(9)]
- Use in connection with the operation of private toll transportation facilities. [18 U.S.C. Sec. 2721 (h)(10)]
- Use by any requester if the requester demonstrates that it has obtained written consent of the individual to whom the information pertains. [18 U.S.C. Sec. 2721 (b)(13)]
- Use specifically authorized under NYS law if such use is related to the operation of a motor vehicle or public safety. [18 U.S.C. Sec. 2721 (b)(14)]
- Vehicle and Traffic law Sec. 309(a) et seq. (Article 19A - Special Requirements for Bus Drivers)
- Vehicle and Traffic Law Sec. 309(p) et seq. (Article 19B - Special Requirements for Commercial Motor Carriers)
- Other - Cite the law here: \_\_\_\_\_

---

Contractor's contact person for matters regarding this Memorandum of Understanding

Name
Address
City State Zip Code
Telephone Number (Include Area Code) (    )
Fax Number (Include Area Code) (    )
E-Mail Address (If any)



See SECTION 6-20.2.2 -

**APPENDIX G****FINANCIAL RESPONSIBILITY STATEMENT**

I understand, and by signature and submission of this form, agree to the stipulation that if awarded the contract associated with this RFP, \_\_\_\_\_  
*(Name of Proposing Company)*  
becomes the primary contractor for completion of the tasks defined by this RFP, and the resulting Contract. As the primary contractor, said company may subcontract any portion, or combination thereof, the tasks associated with this project; however, the primary contractor assumes all financial responsibility for the completion of all project-related tasks, including those which have been assigned to subcontractors.

\_\_\_\_\_  
*(Signature of Authorized Company Official)*

\_\_\_\_\_  
*(Print Name of Signature)*

Date \_\_\_\_\_

**NOTE: This form is to be submitted with the bidder's proposal, in Volume 2, Part 5, on May 6, 2003.**

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## APPENDIX H GLOSSARY: PART ONE: ACRONYMS/DEFINITIONS

CBT	Computer Based Training
CFR	Code of Federal Regulations
COTS	Common off the Shelf (Software)
DEC	Department of Environmental Conservation
DMV	Department of Motor Vehicles
DTC	Diagnostic Trouble Code
ECD	Emission Control Device
EPA	US Environmental Protection Agency
ERD	Entity Relationship Diagram
FOIL	Freedom of Information Law
GUI	Graphical User Interface
I/M	Inspection/Maintenance
IP	Internet Protocol
IS	Information System
ISO	International Organization for Standardization
MIL	Malfunction Indicator Lamp
M/WBE	Minority/Women Business Enterprise
NYMA	New York Metropolitan Area
NYS	New York State
OBD	OnBoard Diagnostics
OBDII	OnBoard Diagnostics, 2 <sup>nd</sup> Generation
OFT	Office For Technology
PCM	Power Control Module

PDA	Personal Digital Assistant
PID	Parameter Identification
RFP	Request for Proposal
SAE	Society of Automotive Engineers
SIP	State Implementation Plan
TCP/IP	Transmission Control Protocol/Internet Protocol
VIN	Vehicle Identification Number
VID	Vehicle Inspection Database
VIP	Vehicle Inspection Program
VSS	Vehicle Safety Services
V&T	Vehicle and Traffic Law
XML	Extensible Markup Language

## APPENDIX H Part Two: Glossary of Terms

**APPENDIX A:** Standard terms for all New York State contracts that are approved and promulgated by the New York State Offices of the Attorney General and State Comptroller. The terms are incorporated by reference into these General Specifications.

**BID OR PROPOSAL:** A firm offer to furnish a described commodity or service or combination thereof at a stated price in accordance with the bid documents. Wherever the term "bid" is used herein, it shall also be deemed to include "proposal".

**BIDDER:** Any person, partnership, firm, corporation or other authorized entity submitting a bid or proposal to the State. The term BIDDER shall also include "OFFERER" and "PROPOSER".

**BID DOCUMENTS:** All bid invitations, requests for proposals, specifications and amendments thereto.

**BID INVITATION:** The form(s) which, when issued by OGS, or by Agencies in accordance with guidelines issued by OGS and/or the Procurement Council, constitutes an invitation for bid or request for proposal on the commodity, service or combination thereof described herein and which, when completed by the bidder, constitutes a firm and binding offer to the State to furnish such commodity, service or combination thereof.

**CERTIFIED INSPECTOR:** A person who has been issued a certificate authorizing them to conduct inspections of motor vehicles and/or motorcycles or trailers by the Commissioner of Motor Vehicles.

**COMMISSIONER:** The head of the Department of Motor Vehicles.

**COMMISSIONER REGULATIONS:** Rules and regulations promulgated by a state agency in interpretation of existing legislation authorizing specific functions and duties.

**COMPTROLLER:** Comptroller of the State of New York.

**CONTRACT DOCUMENTS:** All bid and award documents and amendments thereto.

**CONTRACTOR:** Any bidder to whom a contract award has been made by the Commissioner.

**DIAGNOSTIC TROUBLE CODE:** These are a 5-digit code returned from an OBD scan tool which describes affected vehicle system, whether the code is generic or manufacturer specific, the affected sub-system and the problem determined. For example, code P0474 is a generic code (P) for the Powertrain (P) Auxiliary Emission Control Devices (4) indicating exhaust pressure sensor is intermittent (74).

**EMISSION CONTROL DEVICE:** A device on a motor vehicle aimed at reducing exhaust emissions levels. Specific devices include Catalytic Converter, Positive Crankcase Ventilation System (PCV), Fuel Inlet Restrictor, Exhaust Gas Recirculator Valve (EGR), Thermostatic Air Cleaner (TAC) and Air Injection System (AIR).

**FACILITY NUMBER:** A 7-digit number assigned by DMV to track individual inspection stations and other classifications such as dealers and repair shops. The numbers are displayed by facilities on exterior signs.

**I/M PROGRAM:** A common acronym referencing vehicle inspection programs.

**INSPECTION FEES:** The fee charged to a motorist by an inspection station for a motor vehicle inspection. These fees are promulgated in the Part 79 commissioner regulations.

**INSPECTION CERTIFICATE/STICKER:** A sticker secured from the DMV and issued by an inspection station to a motorist that indicated successful completion of an inspection of the vehicle. NYS issues a variety of different stickers for different types of vehicles and inspections.

**INVITATION FOR BID:** A type of bid invitation which is used when procurements can be translated into exact specifications and the intent is to award to the lowest responsible and responsive bidder.

**LATE BID:** With respect to Agency bid openings, the term late bid is defined as a bid received in the offices of the purchasing Agency after the date and time established in the bid documents.

**LOW ENHANCED EMISSIONS:** A term used to describe an enhanced inspection on vehicle model years 1995 and older where a safety item, emission control device and gas cap check are performed. For the purposes of the NY-VIP system, a "Low Enhanced Safety/Emissions Sticker" will be issued for vehicles which receive either a Low Enhanced Emissions Test or an OBD Test.

**MALFUNCTION INDICATOR LIGHT:** The term used for the "Check Engine Light" or "Service Engine Soon" light, or any other indicator light with a similar name or symbol that performs the same function. This light is evaluated when performing the OBD emissions portion of an inspection. When the light is illuminated while the vehicle is running, it is an indication that the vehicle requires attention soon.

**MQSERIES:** Windows based communications software used to format and send messages electronically.

**NON-ATTAINMENT AREA:** An EPA designated geographic classification that refers to an area which is shown, by monitored data, or which is calculated by air quality modeling, to exceed any national ambient air quality standard for a particular pollutant. Areas within NYS have been found in nonattainment for ozone, carbon monoxide, and particulate matter (PM-10). The NYMA is designated as a severe non-attainment area for ozone.

**NOTICE OF CONTRACT AWARD:** The notification by the Agency to all concerned that a contract has been made between the State and the successful bidder.

**NEW YORK METROPOLITAN AREA:** The nine-county area of New York City and the surrounding Counties. It includes Nassau, Suffolk, Kings, Queens, Richmond, Bronx, New York, Westchester and Rockland.

**ON BOARD DIAGNOSTICS:** System, within passenger cars and light duty trucks in designated model year 1996 and newer, which monitors system degradation as it relates to powertrain components and emissions control devices of an automobile.

**OZONE TRANSPORT REGION:** An EPA designated classification that refers to an area, as defined by section 184 of the Clean Air Act Amendments of 1990, which includes 11 states (including all of NYS) and the District of Columbia. Additional air pollution control requirements, including enhanced

I/M programs, are imposed on these areas regardless of local nonattainment status due to the interstate transport of ozone.

**READINESS INDICATOR:** Each vehicle has a series of system monitors that evaluate specific functions. Common to most vehicles are the comprehensive component monitor, misfire monitor, fuel monitor, oxygen sensor, the catalyst monitor, the EGR monitor, the EVAP monitor and the AIR monitor. The OBD system, when interrogated, will indicate if these monitors are "ready" or "not ready".

**RECALL:** A recall refers to an automotive manufacturers specific years, makes and models. Through complaints, safety problems and ongoing maintenance—should a vehicle component (especially related to emissions) fail to perform as expected, the auto manufacturer will issue a recall. In these cases, the manufacturer (through their dealer network) will fix a specific problem at no cost to the vehicle owner.

**RECEIPT:** For all NYS inspections, motorists are to be issued a receipt for services rendered which includes: date, facility number, certified inspector number, vehicle information (make, model, year, etc.), fee charged to the motorist and results of the inspection (pass/fail).

**REGISTRATION BASED ENFORCEMENT:** This is an EPA required enforcement tool which ties a requirement for a valid current vehicle inspection to be performed before a vehicle can be registered by a state. If a vehicle does not have a valid registration, the plates must be turned in and the car taken off the road.

**REGISTERED INSPECTION STATION:** Any person or corporation to which a license has been issued by the Commissioner of Motor Vehicles to conduct inspections of motor vehicles.

**REGISTERED VEHICLE:** Residents of NYS are required to register their vehicles with the NYS DMV. In most cases, vehicle registration is a biennial requirement; motorists are issued license plates and a windshield sticker to show compliance.

**REINSPECTION:** When a vehicle is presented for an inspection and it fails and then represented within 30 days to the same or different inspection station, it is considered a reinspection. Motorists will only need to have the portion for which they failed initially reinspected (emissions, safety or OBD).

**REJECTION NOTICE:** A document (VS-1075) which is issued by a station to a motorist describing why a vehicle failed the inspection.

**RESPONSIBLE BIDDER:** A bidder or other offerer that is reliable, qualified and competent to provide the commodities or services included in the solicitation.

**RESPONSIVE BIDDER:** A bidder or other offerer meeting the minimum specifications or requirements as prescribed in the solicitation for commodities or services by a State Agency.

**REQUEST FOR PROPOSAL OR RFP:** A type of bid invitation which is used for procurements where factors beyond cost are of equal or greater importance in awarding the contract, and an evaluation of proposals is necessary.

**SAFETY ONLY/SAFETY ITEMS:** Safety only or Safety item refers to a specific set of vehicle equipment that must be evaluated as part of a NYS inspection. These include: brakes, parking brake, tires, steering and suspension, lighting, reflectors, windshield and other glass, mirrors, windshield wipers, horn and seat belts.

**SERVICE OR SERVICES:** The performance of a task or tasks. The term service or services shall also be deemed to include technology.

**SPECIFICATIONS:** Description of commodity, service or combination thereof and the conditions for its procurement. Specifications may include any description of the physical or functional characteristics or nature of a commodity, the products to be provided, the necessary qualifications of the offerer, the capacity and capability of the offerer to successfully carry out the proposed contract or the process for achieving specific results and/or anticipated outcomes or any other requirements necessary to perform the work.

**UPSTATE:** Commonly referred to as the non-NYMA. This refers to the 53 counties outside of the NYMA.

**VEHICLE INSPECTION:** A check of a vehicle done by a registered inspection station which can look at safety items, presence of emissions control devices and also perform enhanced emissions testing (idle or dynamometer) to measure the level of pollutants from the vehicle's tailpipe. Required annually in NYS.

**VEHICLE IDENTIFICATION NUMBER:** A unique (up to) 17-digit alphanumeric identification number assigned by a vehicle manufacturer to a vehicle which describes where made, manufacturer, vehicle type, engine type, body and transmission type, make, model year and production number. In the case of homemade or custom vehicles, NYS DMV assigns these numbers.

**VEHICLE SAFETY SERVICES:** A division within the NYS DMV that oversees the automotive industry and also investigates consumer complaints against a facility.

**WAIVER:** The Clean Air Act requires that motorists tested in enhanced programs spend a minimum of \$450 on repairs related to emission test failure before being eligible for a waiver. The repair amount is to be adjusted annually based on the Consumer Price Index, considering a 1989 base year. Waivers last for the duration of the test cycle, which in NYS is one year.

NYS deems the NY-VIP Technical Specification as a confidential document. The Specification describes all the features and functions of the NY-VIP installed computer system. It is NYS's intention to keep this document up to date over the life of the resulting contract through version control. Information included here is designated as confidential and as such, should only be shared for the purposes of designing the NY-Vehicle Inspection Program.

Appendix I will be mailed and/or emailed to bidders who properly execute a Confidentiality Agreement/Certificate of Non-Disclosure. The form is contained in Appendix D and instructions are in the RFP section 1-8.

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NYS  
Department of Motor Vehicles  
Database Administration  
Design and Documentation Guidelines  
As of March 22, 1999

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# DMV DATA BASE STANDARDS

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## Minimum Database Documentation Components

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The following are the minimum documentation requirements for the database portion of a system.

### **Diagram**

- An Entity Relationship Diagram depicting the physical structure of the database, including all tables, relationships, elements (with datatypes, sizes, and null options) and indexes proposed in the system.

### **Business Rules**

- A complete set of business rules for the system. A business rule is a statement containing one fact about an operational business policy or practice that is intended to control or influence the behavior of the business. They may be in the forms:
  - Definitions - A business noun's meaning or significance (e.g., A professor is a person with whom the university has a legal contract describing that they teach classes in return for payment).
  - Facts - Assertions that a particular object (noun) has a property, or that one or more objects participate in a relationship (e.g., A professor teaches a class).
  - Constraints - A restriction of the validation rule about a fact type's population (e.g., A customer may have at most 10 unpaid orders at any point in time).
  - Derivations - A mechanism for extracting new fact types from existing fact types (e.g., a retail item's markup price is the difference between its wholesale price and its retail price).

### **Table (Entity) Definition**

- Table documentation should include the following components:
  - Table Name
  - Table Description
  - Columns (attributes) in the table
  - Column Name
  - Percent of Time attribute exists in Table
  - Number of expected occurrences in Table
  - Growth Rate of Occurrences
  - Insertion, Update, Deletion Rules
  - Notes, constraints, comments

### **Relationship Definition**

- Relationship documentation should include the following components:
  - Relationship Name
  - Relationship Description
  - Entities participating in relationship
  - Mapping Class (e.g., 1-to-1, 1-to-many)
  - Completeness Class (Indicates whether all occurrences in an entity must be connected via the relationship)
  - Cardinality (minimum, maximum, and average children in relationship)

### **Column (attribute) Definition**

- Column documentation should include the following components:
  - Column Name
  - Column Description
  - Source of information
  - Domain
  - Notes, constraints, comments

## **SQL Server Conventions**

---

### **SERVER NAMES :**

Do not use underscores in Server names.

Designation: Server Identifier  
Suffix: SRV

EG: TSLEDSRV

### **DATABASE DEVICES :**

Use underscores between Prefixes, Designations and Suffixes

Prefix: Environment (eg. DEV, TEST, PROD)  
Designation: Application identifier  
Suffix: Device identifier (eg. DATA, LOG)

EG: DEV\_TSLED\_DATA  
PROD\_TSLED\_LOG

### **BACKUP DEVICES :**

Use underscores between Prefixes, Designations and Suffixes

Prefix: Environment (eg. DEV, TEST, PROD)  
Designation: Application identifier  
Suffix: BACKUP

EG: TEST\_TSLED\_BACKUP

### **DATABASES :**

Use underscores between Prefixes, Designations and Suffixes

Prefix: Environment (eg. DEV, TEST, PROD)  
Designation: Application identifier  
Suffix: DB

EG: PROD\_TSLED\_DB

**TABLES :**

Use underscores between Prefixes, Designations and Suffixes and also between distinct words in designation portion of table name

**PARENT TABLES:**

Prefix: Application Identifier (eg. TSL)  
Designation: Meaningful name

EG: TSL\_TICKET

**CHILD TABLES:**

Prefix: Parent Identifier (eg. TKT)  
Designation: Meaningful name

EG: TKT\_DISPOSITION

**CODE TABLES:**

Code column name minus \_CDE  
EG. County code table: COUNTY

**COLUMNS :**

Use underscores between Prefixes, Designations and Suffixes and also between distinct words in designation portion of table name. See the document DMV GLOBAL COLUMNS for the most complete list of standardized global column names used at DMV.

Prefix: See below\*  
Designation: Meaningful name  
Suffix: See below\*

**PREFIXES:**

Prefix should relate to table name with the following exceptions:

Global DMV attributes should be prefixed with DMV (eg. DMV\_CLIENT\_ID, DMV\_DOB, DMV\_SEX\_CDE)

Foreign Key columns should maintain the same name as the related column in the parent table.

**SUFFIXES:**

Suffixes are required for the following column types:

<u>Column type</u>	<u>Suffix</u>
Indicators (Y/N Only)	IND
Codes	CDE
Descriptions (for codes)	DESC
Dates	DTE
Dollar Amounts	AMT

Counters	CTR
Text columns	TEXT
Numeric columns	NUM

### **INDEXES :**

Use the name generated by the modeling tool. ie. ERWIN.

#### **INDEXING STRATEGY:**

Index selection is based on the design of the tables and the queries that are executed against the tables. Before you create indexes, make sure that the indexed columns are part of a query or are being placed in the table for other reasons, such as preventing duplicate records. The following are suggestions for indexing strategies:

#### **WHAT TO INDEX:**

The following criteria should be used in determining columns which are index candidates:

- o Columns used in table joins
- o Columns used in range queries
- o Columns used in ORDER BY queries
- o Columns used in GROUP BY queries
- o Columns used in aggregate functions

#### **WHAT NOT TO INDEX:**

The following are examples of cases in which columns or indexes should not be used or should be used sparingly:

- o Tables with a small number of rows
- o Columns with poor selectivity (that is, with a wide range of values)
- o Columns that are very large in width (try to limit indexes to columns less than 25 bytes in size)
- o Tables with heavy transaction loads (lots of inserts and deletes) but very few decision support operations
- o Columns not used in queries

### **REFERENTIAL INTEGRITY :**

Foreign key RI should be enforced by DBMS whenever possible, except for code table RI, which should be enforced by the Application (dropdown windows)

### **PRIMARY KEY CONSIDERATIONS :**

All tables should have a primary key, unless design stipulates that a unique key is not possible.

### **CODE & INDICATOR RULES :**

All code and indicator fields are NOT NULL. All indicator fields are 1 byte with mandatory entries of Yes or No and end with the suffix “\_IND”. All code fields end with the suffix “\_CDE”.

**NULL FIELDS: WHEN TO USE NULL :**

All fields should be defined as NOT NULL except where it is determined to be necessary to make the field Null. Two common situations where Null is used is with date fields that are sometimes not entered and numeric fields that are used in various calculations where a default of zero would distort the results.

**CHAR or VARCHAR FIELDS: WHEN TO USE VARCHAR :**

VARCHAR should be considered whenever a field is 10 or more characters and the values entered are not static in length.

**UTILITIES :**

**SQL- Server:**

**DBCC**

**CHECKDB** - checks all tables and indexes in a database for pointer and data page errors.

**NEWALLOC** - improved version of the CHECKALLOC command. NEWALLOC scans the data and index pages for extent structure errors. It ensures that page allocation is correct and that all allocated pages are in use.

**CHECKCATALOG** - checks the system tables for consistency by ensuring that each datatype in the *syscolumns* table has a matching entry in the *sysypes* table, that each table and view in the *sysobjects* table has one or more matching records in the *syscolumns* table, and that the last checkpoint in the *syslogs* table is correct. Segment information is also displayed. NOTE! Use this command before dumping the database or when you suspect corruption within the system tables.

**CHECKTABLE** - ensures that all pointers are consistent, that data and index pages are properly linked, that indexes match the proper sort order, and that page offsets and page information are correct.

NOTE! Use this command when you suspect that a table is corrupt or as part of our periodic maintenance.

**DBREINDEX** - rebuilds a table's indexes.

**DBREPAIR** - in previous versions of SQL-Server this command was used to DROP A DAMAGED Database if the standard DROP DATABASE command is unable to accomplish this. In version 6.5 and after, use the system procedure *sp\_dbremove* to drop a damaged database.

**DB2:**

**STOSPACE** - updates the DB2 catalog columns that indicate how much space is allocated for storage groups and related table spaces and indexes.

**LOAD** - loads data into one or more tables, or one or more partitions of a table space, and can replace or append the existing data in either case.

**UNLOAD** - exports data from a table and stores it in a data set to be used by the LOAD utility to put the data into another table in either the test or production subsystems.

**RECOVER TABLESPACE** - recovers an entire tablespace, a data set, pages within an error range, or a single page. You recover data from image copies of a table space and database log change records.

**RECOVER INDEX** - recreates indexes from the table that they reference.

**REORG** - reorganizes a table space to improve access performance and reclaim fragmented space. In addition, the utility can reorganize a single partition of either a partitioned index or partitioned table space.

**REPAIR** - can use the SET TABLESPACE and SET INDEX statements to reset the copy pending, recovery pending and check pending statuses for a table space or data set. The SET INDEX statement resets the "recovery pending" status for an index.

**RUNSTATS** - gathers summary information about the characteristics of the data in table spaces, indexes, and partitions. This information is stored in the DB2 catalog and used by DB2 to select access paths to data during the bind process.

# APPENDIX K

# Inspector Survey and Results

## SUMMARY OF RESPONSES RECEIVED TO DATE\* (N=926) INDUSTRY ON BOARD DIAGNOSTICS (OBD) AND TRAINING SURVEY

### DEMOGRAPHICS

#### 1. Your Age (Check One)

18-25 -- 11%	31-35 -- 12%	41-45 -- 16%	51-55 -- 12%	61-65 -- 2%
26-30 -- 8%	36-40 -- 18%	46-50 -- 15%	56-60 -- 5%	>65 years -- 1%

#### 2. Years of Experience in Auto Industry (Check One)

0-5 -- 13%	11-15 -- 10%	21-25 -- 18%	31-35 -- 11%
6-10 -- 12%	16-20 -- 14%	26-30 -- 13%	>35 years -- 9%

#### 3 Current Position(s) (Check all that apply)

Business Owner -- 39%	Mechanic/Repair -- 75%	Association (Member) -- 12%
Service Writer -- 26%	Vehicle Inspector -- 49%	

#### 4. Number of People Who Work at Your Facility? (Check One)

1-4 people -- 51%	5-8 people -- 27%	9-12 people -- 8%	More than 12 people -- 12%
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### EDUCATION AND TRAINING

#### 5. How did you learn about automotive repair? (Check all that apply)

On-the-job training (apprentice) -- 76%	Manufacturer-Specific Training -- 31%
High School (DOCES or equivalent) -- 41%	ATTP (or equivalent) Training -- 29%
College (2 or 4-year program) -- 25%	

#### 6. What type and average number of classes in automotive technology have you attended in the past 5 years? (Check all that apply)

AVERAGE #	SYSTEM/TYPE:					
	NYS Inspections	Emissions	Electrical	Mechanical	OBDII	Alternate Fuel
.74	1.09	1.14	1.00	1.00	.21	

#### 7. Preferred type of training/training methods? (Check all that apply)

On-the-Job Training - 71%	Classroom - Nights -- 53%	Books/Magazines - 35%	Videos/Tapes - 44%
Classroom - Daytime - 28%	Classroom - Weekends - 12%	Internet/Computer-Based -- 26%	

#### 8. What are your barriers to training? (Check all that apply)

Time to attend classes -- 68%	Locations not convenient -- 39%	Cost of training -- 39%
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#### 9. Preferred length of training classes? (Check one)

0-2 hours -- 28%	2-4 hours -- 48%	4-6 hours -- 12%	6-8 hours -- 9%
------------------	------------------	------------------	-----------------

(page one of two)

**OBDII AND COMPUTER SKILLS**

<b>10. Do you use a scan tool that is OBDII compliant?</b>	
Yes -- 85%	No -- 12%

<b>11. What is your current knowledge of OBDII?</b>					
<b>AREA OF KNOWLEDGE:</b>					
	<b>OBDII Strategies</b>	<b>MIL Light</b>	<b>Readiness Indicators</b>	<b>Freeze Frame Data</b>	<b>Trouble Codes (DTC)</b>
<b>NONE</b>	11%	12%	16%	18%	8%
<b>SOME</b>	32%	21%	26%	26%	20%
<b>GOOD</b>	41%	45%	35%	33%	50%
<b>GREAT</b>	10%	13%	10%	10%	16%

<b>12a. Do you use a computer in your current work?</b>	
Yes -- 82%	No -- 17%

<b>12c. How would you define your computer skills?</b>			
Excellent -- 11%	Good -- 45%	Fair -- 33%	Poor -- 10%

<b>13a. Do you use the Internet to get vehicle information?</b>	
Yes -- 37%	No -- 61%

**OPTIONAL:**

<b>(% have provided contact information by Vehicle Safety Region)</b>		
Long Island -- 19%	Queens -- 7%	Syracuse -- 23%
Yonkers -- 12%	Latham -- 7%	Buffalo -- 18%

(page two of two)

\* NOTE: Initial results presented here include responses received from 9/1/02 through 1/24/03. These surveys were distributed through VSS field staff and the ATTP network of trainers (84% of all responses). A version of this survey was included in the Fall 2002 issue of the VSS Hotline publication. The Hotline version was mailed to all facilities during December 2002 with a respond by date of January 10<sup>th</sup> (16% of all responses).

# APPENDIX L Vehicle Counts by Model Year, Weight and Fuel Type - As of April 2002

Upstate NY Vehicle Population for Selected Years and Fuel Types

	Albany				Allegany				Broome				Cattaraugus			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	88	4	1	0	22	1	0	0	104	1	1	0	39	2	0	0
1966	115	2	0	0	24	1	0	0	118	6	2	0	50	1	1	0
1967	101	5	0	0	28	4	0	0	109	8	3	0	57	8	0	0
1968	109	6	3	0	21	1	0	0	111	6	7	0	63	9	0	0
1969	153	7	3	0	40	8	3	0	150	6	1	0	58	2	1	0
1970	163	5	11	0	41	4	2	0	136	18	8	0	51	5	2	0
1971	125	10	11	0	42	6	4	0	125	15	6	0	52	4	1	0
1972	167	15	11	0	49	5	2	0	131	14	7	0	60	17	2	0
1973	140	15	16	0	45	16	7	0	144	27	8	0	69	21	1	0
1974	137	23	11	0	34	13	6	0	122	19	8	0	55	11	2	0
1975	108	21	11	0	33	18	9	0	113	15	11	0	61	11	10	0
1976	147	11	7	0	52	19	4	0	193	25	7	0	82	18	2	0
1977	248	30	17	0	92	27	8	0	295	31	9	0	153	23	3	0
1978	306	33	31	0	141	13	13	0	436	42	16	0	240	32	6	0
1979	407	38	37	0	118	34	15	0	532	48	26	0	225	29	12	0
1980	281	29	42	0	79	8	19	0	207	18	27	0	127	21	22	0
1981	287	20	38	0	110	17	12	0	331	32	38	0	152	21	16	0
1982	436	25	44	0	133	9	17	0	498	33	37	0	207	26	33	1
1983	673	27	41	0	223	13	15	0	836	28	36	0	298	13	15	0
1984	1345	72	90	0	364	26	24	0	1564	63	64	0	627	28	32	0
1985	2194	59	94	0	528	28	39	0	2238	77	77	0	856	33	48	0
1986	3395	84	109	0	749	29	49	0	3395	94	79	0	1144	43	50	0
1987	4898	107	139	0	997	28	33	0	4585	82	111	0	1541	45	39	1
1988	6675	151	160	1	1394	23	38	1	6287	102	160	0	2299	52	46	0
1989	7593	120	142	0	1671	28	42	1	6749	111	111	3	2565	49	68	0
1990	8055	102	144	1	1598	30	38	1	6812	72	112	2	2571	32	55	0
1991	8342	86	108	0	1684	19	32	0	7396	67	134	0	2891	21	42	0
1992	9397	82	107	1	1942	22	22	0	8024	88	88	0	3093	35	55	1
1993	11070	96	146	0	2117	9	41	0	8642	104	105	1	3638	43	86	1
1994	11744	172	210	0	2146	20	38	2	9143	92	133	0	3721	47	64	0
1995	13603	237	262	0	2239	32	51	1	10623	139	223	1	4162	55	95	1
1996	12149	172	285	3	1963	22	49	0	9249	109	181	2	3565	43	65	0
1997	13724	276	321	0	2190	38	38	1	10409	168	198	4	3886	61	81	0
1998	14370	240	391	11	2058	23	46	1	10170	117	124	1	3982	39	59	0
1999	16138	391	783	8	1929	31	55	1	9386	203	205	0	3733	65	128	1
2000	18191	443	865	3	2010	35	54	0	9580	218	268	2	4164	66	101	1
2001	17182	453	652	10	1537	33	44	0	7294	222	180	4	3174	73	86	0
2002	7294	171	197	1	565	8	19	1	2717	72	52	1	1236	28	37	0
2003	15	0	0	0	0	0	0	0	23	0	0	0	1	0	0	0
Totals	191565	3840	5540	39	31008	701	888	10	139057	2592	2863	21	54948	1132	1366	7

	Cayuga				Chautauqua				Chemung				Chenango			
	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)
1965	37	2	0	0	80	4	1	0	41	3	0	0	17	0	0	0
1966	46	3	1	0	114	4	1	0	45	2	1	0	33	3	1	0
1967	60	6	2	0	111	3	1	0	64	5	1	0	34	5	1	0
1968	64	3	0	0	104	7	0	0	54	7	0	0	42	5	1	0
1969	61	5	3	0	149	5	1	0	69	5	0	0	43	4	2	0
1970	52	3	1	0	122	11	4	0	46	15	1	0	37	10	0	0
1971	43	8	1	0	96	7	2	0	60	4	2	0	41	7	4	0
1972	45	8	5	0	116	8	5	0	63	8	4	0	55	6	1	0
1973	54	7	3	0	106	17	5	0	73	28	7	0	52	16	8	0
1974	63	14	6	0	98	16	10	0	62	12	4	0	45	7	3	0
1975	46	12	7	0	86	23	4	0	57	14	9	0	30	12	1	0
1976	87	13	4	0	167	16	4	0	89	18	3	0	61	5	2	0
1977	100	14	7	0	222	23	16	0	148	21	7	0	121	10	2	0
1978	150	23	15	0	352	28	24	0	177	30	7	0	114	20	3	0
1979	198	28	14	0	363	34	20	0	260	26	10	0	186	23	14	0
1980	90	12	11	0	235	24	21	0	144	16	21	0	90	5	8	0
1981	110	8	10	0	249	17	25	0	158	15	7	0	96	13	8	0
1982	174	16	19	0	335	19	36	0	196	10	22	0	163	10	13	0
1983	271	16	19	0	484	18	18	0	363	15	14	0	208	15	11	0
1984	548	25	51	0	1059	42	38	0	723	38	39	0	437	17	17	0
1985	713	37	36	0	1399	47	60	1	969	39	37	0	612	22	18	0
1986	1177	34	47	0	1984	55	62	1	1407	43	51	0	890	32	29	0
1987	1521	43	49	0	2651	58	71	0	2085	49	45	0	1238	34	33	1
1988	2329	46	57	0	3639	58	60	1	2606	42	42	0	1696	59	27	0
1989	2443	49	61	0	4449	69	77	1	2830	57	42	0	1777	39	39	1
1990	2582	33	50	0	4333	55	93	1	2968	38	57	1	1700	25	31	0
1991	2701	18	63	0	4694	39	43	0	3084	23	41	2	1794	20	23	0
1992	2915	18	44	0	5218	29	71	2	3326	25	35	0	1997	19	26	0
1993	3411	20	179	1	5886	36	71	0	3746	35	68	1	2281	21	22	1
1994	3465	49	290	0	6189	75	90	1	3970	43	63	0	2405	18	40	2
1995	3767	53	407	0	6965	97	157	1	4994	60	78	0	2827	36	51	0
1996	3341	30	88	0	5822	75	135	0	4145	43	70	0	2419	19	28	0
1997	3699	49	85	0	6375	86	166	1	4773	44	158	0	2855	36	42	0
1998	3949	41	110	0	6674	58	118	3	5223	46	152	3	2874	21	21	0
1999	3873	64	91	1	5992	128	234	1	4257	78	159	0	2471	48	61	0
2000	4029	73	133	0	6752	98	276	3	4476	86	182	3	2452	38	55	4
2001	3377	89	59	3	5192	116	219	2	3070	49	78	0	1847	41	53	0
2002	1324	36	17	1	2036	27	56	0	1058	19	43	0	694	26	28	1
2003	2	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0
Totals	52917	1008	2045	6	90901	1532	2295	19	61883	1111	1560	10	36734	747	727	10

	Clinton				Columbia				Cortland				Delaware			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	36	4	0	0	41	5	0	0	22	0	0	0	42	4	0	0
1966	39	2	1	0	64	1	2	0	20	2	0	0	38	1	2	0
1967	40	7	1	0	77	5	0	0	29	2	0	0	63	6	3	0
1968	48	1	0	0	68	5	1	0	28	2	3	0	60	8	1	0
1969	71	6	2	0	70	10	1	0	28	2	1	0	61	4	3	0
1970	60	5	3	0	78	4	4	0	37	2	2	0	49	7	12	0
1971	37	8	3	0	48	7	6	0	38	5	1	0	42	11	7	0
1972	55	7	1	0	63	13	7	0	42	6	4	0	43	8	3	0
1973	55	16	5	0	78	18	3	0	42	4	6	0	59	7	7	0
1974	39	11	2	0	64	13	4	0	33	5	5	0	59	18	8	0
1975	30	13	2	0	54	15	2	0	30	6	8	0	54	14	9	0
1976	61	17	3	0	64	8	3	0	42	11	3	0	81	10	4	0
1977	106	28	7	0	91	19	5	0	58	8	4	0	112	19	8	0
1978	122	19	9	0	134	18	16	0	89	12	8	0	169	20	20	0
1979	176	32	15	0	173	17	18	1	116	15	21	0	218	24	20	0
1980	90	15	10	0	133	13	19	0	70	10	7	0	119	12	18	0
1981	128	7	15	0	121	17	37	0	63	4	15	0	139	10	17	0
1982	140	16	24	0	205	11	29	0	114	7	15	0	178	18	22	0
1983	262	22	13	0	315	9	38	0	138	11	8	0	270	20	24	0
1984	467	33	42	1	596	30	45	0	306	18	10	0	535	35	28	0
1985	742	26	59	0	864	24	48	0	430	14	21	0	762	21	42	0
1986	1067	57	46	0	1351	51	58	0	646	28	41	0	1036	39	37	1
1987	1563	45	43	0	1754	56	70	0	861	26	31	1	1378	47	43	0
1988	2182	56	64	0	2263	59	60	1	1251	28	26	0	1845	67	44	0
1989	2381	37	61	1	2486	60	49	0	1431	28	36	0	1934	64	54	0
1990	2377	32	50	0	2339	32	73	0	1547	13	34	0	1738	31	39	0
1991	2448	22	53	0	2425	17	46	0	1592	10	24	0	1899	26	25	0
1992	2799	28	52	0	2467	23	31	0	1775	19	23	1	1938	24	35	0
1993	3312	39	75	1	2829	26	52	0	2044	24	26	1	2132	28	51	1
1994	3321	36	72	0	3068	39	60	2	2150	37	32	5	2330	42	42	0
1995	3934	43	104	1	3317	61	95	2	2516	43	48	9	2681	51	86	0
1996	3363	33	64	1	2810	38	60	0	2183	38	38	5	2279	31	67	2
1997	3700	37	78	0	3131	45	82	0	2408	57	30	23	2604	63	64	0
1998	3841	29	74	3	3188	47	64	1	2464	37	32	32	2806	38	63	0
1999	4105	75	124	1	3280	76	118	0	2100	43	39	19	2634	46	109	1
2000	4761	86	118	3	3520	98	123	0	2116	41	52	3	2849	83	111	2
2001	4185	99	94	4	3049	113	106	1	1552	42	27	1	2540	77	99	0
2002	1582	69	36	1	1402	56	58	0	577	21	13	9	1034	39	81	0
2003	1	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0
Totals	53726	1118	1425	17	48083	1159	1493	8	30988	681	694	109	38812	1073	1308	7

	Dutchess				Erie				Essex				Franklin			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	130	2	1	0	365	6	0	0	18	2	1	0	19	1	0	0
1966	164	5	2	0	518	9	3	0	17	1	0	0	33	0	0	0
1967	230	4	1	0	505	10	2	0	30	1	0	0	26	4	0	0
1968	213	11	3	1	551	11	2	0	25	5	1	0	23	2	2	0
1969	271	10	2	1	631	20	4	0	34	2	0	0	27	6	0	0
1970	265	17	6	0	569	23	5	0	30	3	1	0	23	6	0	0
1971	213	15	5	0	509	15	14	0	26	2	2	0	21	5	2	0
1972	263	15	6	0	586	37	14	0	33	5	1	0	33	4	1	0
1973	197	29	12	0	525	60	26	0	22	5	1	0	26	14	1	0
1974	181	27	20	0	415	51	33	0	34	8	1	0	25	9	2	0
1975	149	15	22	0	449	59	40	0	26	7	1	0	22	8	2	0
1976	203	27	9	0	654	58	20	0	51	7	2	0	37	10	3	0
1977	324	22	23	0	903	103	30	0	52	7	6	0	56	7	3	0
1978	428	38	30	0	1242	118	51	0	60	8	6	0	98	13	4	0
1979	545	56	49	0	1531	160	74	0	100	15	8	0	103	18	10	0
1980	441	46	71	0	845	99	76	0	69	16	6	0	58	15	6	0
1981	437	39	74	0	1139	105	76	0	69	7	13	0	74	9	5	0
1982	589	50	90	1	1328	106	103	0	95	6	13	0	101	16	10	0
1983	970	41	98	0	2133	91	92	0	128	12	14	0	167	11	10	0
1984	1939	84	123	0	4424	172	193	0	290	12	18	0	294	19	15	0
1985	2912	110	169	2	6537	270	226	0	359	12	24	0	410	17	21	0
1986	4473	174	128	0	9445	282	264	0	575	33	38	0	592	12	28	0
1987	6257	174	162	0	12935	339	255	0	760	29	25	1	864	14	30	0
1988	7688	219	160	2	18308	387	312	0	1046	34	20	0	1293	17	23	1
1989	8685	173	129	0	22482	359	419	1	1173	41	15	0	1465	20	22	0
1990	9134	90	126	1	24669	332	457	3	1135	30	28	1	1479	17	35	0
1991	9395	67	119	0	26940	237	448	0	1191	20	12	0	1512	15	27	0
1992	10123	91	128	1	31005	304	353	2	1216	19	8	0	1802	16	16	0
1993	11403	102	152	0	34991	352	535	4	1578	20	21	0	2175	16	28	0
1994	12601	204	168	0	36773	451	601	11	1640	27	22	0	2368	26	43	1
1995	15266	258	249	2	43321	661	780	19	2034	27	22	0	2514	28	42	0
1996	13165	190	238	0	37552	505	757	18	1640	12	35	0	1960	18	32	0
1997	15105	315	249	1	42207	678	863	18	2096	29	29	2	2344	21	42	0
1998	15817	265	171	2	44961	545	871	33	2148	23	30	0	2477	21	36	0
1999	16230	389	461	7	49648	916	1105	13	2278	52	52	0	2245	31	92	0
2000	19085	468	408	3	61705	1099	926	7	2635	45	50	0	2479	37	70	2
2001	17333	447	367	5	68489	1163	826	15	2139	68	59	2	2068	49	52	0
2002	6817	180	159	1	32115	480	511	10	953	36	15	0	833	31	30	0
2003	11	0	0	0	38	0	0	0	1	0	0	0	2	0	0	0
Totals	209652	4469	4390	30	623943	10673	11367	154	27806	688	600	6	32148	583	745	4

	Fulton				Genessee				Greene				Hamilton			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	33	1	0	0	35	1	0	0	41	6	0	0	3	0	0	0
1966	37	1	0	0	44	2	0	0	46	4	0	0	12	0	0	0
1967	40	1	1	0	59	3	0	0	48	4	0	0	8	2	1	0
1968	42	5	0	0	52	4	1	0	49	2	0	0	4	0	0	0
1969	46	3	1	0	67	1	0	0	46	6	2	0	6	1	1	0
1970	36	8	1	0	55	5	0	0	62	7	2	0	8	2	0	0
1971	37	4	1	0	40	4	0	0	44	6	2	0	5	2	0	0
1972	44	5	2	0	60	5	4	0	62	12	3	0	6	3	1	0
1973	37	10	1	0	39	11	7	0	60	7	4	0	5	4	1	0
1974	33	7	3	0	40	7	5	0	41	6	3	0	6	0	0	0
1975	41	10	6	0	33	11	3	0	39	9	6	0	9	0	0	0
1976	49	14	2	0	61	10	12	0	68	12	8	0	11	1	0	0
1977	71	11	4	0	81	10	9	0	105	6	7	0	8	2	1	0
1978	109	13	9	0	125	11	11	0	137	21	9	0	14	4	7	0
1979	135	15	9	0	142	19	8	0	194	17	24	0	15	4	5	0
1980	71	6	12	0	92	9	8	0	110	24	16	0	6	1	2	0
1981	88	11	14	0	105	14	9	0	126	12	31	0	10	2	5	0
1982	124	8	7	0	125	18	16	0	183	8	22	0	13	1	4	0
1983	217	8	12	0	229	18	30	0	301	10	23	0	18	1	5	0
1984	415	15	12	0	379	17	30	0	542	24	33	0	41	4	2	0
1985	583	23	21	0	611	26	50	0	727	28	40	0	64	4	5	0
1986	942	23	31	0	879	38	45	0	1133	39	44	0	97	8	12	0
1987	1278	34	28	0	1084	39	49	0	1399	40	45	0	131	5	6	0
1988	1824	42	37	1	1719	44	34	0	1838	62	46	0	148	8	5	0
1989	1966	25	30	0	1955	27	50	0	1914	35	47	0	211	6	8	0
1990	1841	18	40	0	2055	41	49	1	1766	24	64	0	181	4	6	0
1991	1881	17	35	0	2210	25	65	0	1846	12	44	0	209	4	7	0
1992	2018	22	20	1	2452	30	38	0	2015	17	97	0	204	2	4	0
1993	2361	10	32	0	2785	35	60	0	2295	20	116	1	224	2	4	0
1994	2443	13	44	0	2988	47	64	0	2280	21	130	0	276	4	5	0
1995	2680	26	47	0	3257	53	71	0	2747	34	162	0	320	5	5	0
1996	2374	27	36	0	2807	40	75	0	2253	38	77	0	300	4	8	1
1997	2856	23	52	1	3142	64	80	0	2507	46	90	0	376	9	8	0
1998	2841	21	33	0	3448	49	67	0	2551	35	62	1	362	4	2	0
1999	2589	28	69	0	2997	71	111	0	2671	45	111	0	394	7	12	0
2000	2947	60	53	0	3251	76	81	1	2796	63	113	0	502	8	9	0
2001	2310	30	42	0	2540	65	87	2	2447	80	85	1	395	14	9	0
2002	822	22	16	0	988	32	30	1	1080	35	41	0	158	10	9	0
2003	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
Totals	38261	620	763	3	43033	982	1259	5	38571	877	1609	3	4760	142	159	1

	Herkimer				Jefferson				Lewis				Livingston			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	19	3	0	0	46	4	0	0	10	2	2	0	37	0	0	0
1966	29	3	0	0	57	0	0	0	24	0	0	0	35	2	0	0
1967	30	2	0	0	68	3	1	0	26	5	1	0	37	3	0	0
1968	35	4	0	0	64	9	1	0	18	5	0	0	36	2	1	0
1969	49	1	0	0	71	6	0	0	20	3	0	0	34	2	0	0
1970	41	7	2	0	45	1	1	0	18	2	4	0	51	3	2	0
1971	38	11	0	0	44	15	2	0	17	6	2	0	36	3	0	0
1972	42	7	3	0	76	8	3	0	24	5	1	0	34	7	0	0
1973	43	11	6	0	46	10	8	0	21	4	4	0	36	5	2	0
1974	37	8	4	0	49	14	9	0	23	7	6	0	41	7	3	0
1975	29	12	5	0	54	13	3	0	16	8	4	0	41	10	4	0
1976	50	6	2	0	64	21	6	0	30	5	0	0	56	6	3	0
1977	95	15	6	0	115	8	5	0	29	8	5	0	92	8	4	0
1978	126	16	3	0	167	19	10	0	69	8	4	0	122	13	3	0
1979	160	19	13	0	207	25	18	0	87	14	9	0	146	19	8	0
1980	91	7	12	0	127	14	19	0	31	7	6	0	74	19	8	0
1981	84	11	11	0	152	9	13	0	48	5	7	0	117	8	14	0
1982	121	8	13	0	197	9	25	0	50	8	10	0	145	10	10	0
1983	197	9	5	0	311	10	15	0	109	3	9	0	239	12	14	0
1984	377	11	17	0	619	25	31	0	199	10	18	0	430	15	22	0
1985	566	31	21	0	893	26	37	0	256	10	20	0	640	24	36	0
1986	836	30	34	0	1272	36	70	0	413	14	23	0	903	34	40	0
1987	1189	30	36	0	1707	45	58	0	543	14	23	0	1249	26	29	0
1988	1772	41	45	0	2450	57	64	2	826	22	26	0	1681	41	34	0
1989	2128	30	48	0	2695	47	48	1	856	14	24	0	2090	29	43	0
1990	2091	34	37	0	2569	36	67	0	877	11	18	0	2045	25	43	0
1991	2133	19	30	0	2874	27	41	0	854	8	18	0	2327	20	33	0
1992	2438	18	34	0	3214	26	50	0	988	7	21	0	2610	25	41	0
1993	2958	25	50	0	3833	32	64	1	1086	9	22	0	3037	36	55	0
1994	2822	40	54	0	4325	46	73	2	1268	11	32	0	3032	30	69	0
1995	3259	28	70	0	5141	47	100	1	1362	20	25	0	3524	39	76	0
1996	2775	18	51	0	4666	29	71	1	1155	14	20	0	3108	33	59	1
1997	3057	31	65	1	5691	46	75	2	1316	16	27	1	3305	44	70	0
1998	3014	17	47	1	6554	45	57	0	1358	8	15	0	3539	43	63	1
1999	2883	39	72	0	5832	78	137	1	1324	22	30	1	3123	56	101	0
2000	3084	54	107	1	6573	74	134	1	1517	19	37	0	3355	65	104	2
2001	2442	53	51	0	4858	60	117	1	1119	27	26	0	2481	71	80	1
2002	1006	22	33	1	1563	20	45	0	461	13	18	0	1056	26	32	0
2003	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
Totals	42148	731	987	4	69291	1000	1478	13	18448	374	517	2	44946	821	1106	5

	Madison				Monroe				Montgomery				Niagara			
	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)
1965	47	1	0	0	258	3	1	0	20	1	0	0	144	3	0	0
1966	63	3	0	0	338	1	1	0	21	2	0	0	177	0	1	0
1967	62	4	1	0	391	8	2	0	31	2	0	0	197	6	1	0
1968	66	3	3	0	395	8	3	0	35	3	0	0	163	1	0	0
1969	55	7	1	0	401	7	6	0	41	0	0	0	236	10	1	0
1970	57	4	1	0	357	8	9	1	33	1	1	0	166	5	4	0
1971	56	4	7	0	321	15	3	0	35	3	0	0	166	10	1	0
1972	66	4	3	0	433	17	6	0	37	8	3	0	209	12	10	0
1973	73	12	4	0	414	26	13	0	37	6	1	0	149	12	4	0
1974	45	14	4	0	328	21	17	0	33	6	4	0	151	21	8	0
1975	38	8	4	0	304	23	8	0	29	3	3	0	129	26	9	0
1976	82	7	3	0	511	36	12	0	42	3	3	0	212	31	4	0
1977	112	19	3	0	646	44	13	0	64	10	5	0	312	32	6	0
1978	153	16	13	0	973	49	24	0	85	11	7	0	441	50	11	1
1979	179	23	12	0	1185	60	45	0	113	16	6	0	498	63	31	0
1980	93	21	10	0	696	43	39	1	61	5	9	0	333	34	17	0
1981	107	11	10	0	799	34	63	0	82	4	13	0	388	31	29	0
1982	150	14	16	0	1117	44	61	0	108	0	12	0	443	29	25	0
1983	214	13	16	0	1808	68	71	0	186	4	15	0	765	46	18	0
1984	436	15	21	0	3607	74	100	0	301	25	17	0	1612	58	44	0
1985	601	29	33	1	5451	136	133	0	521	20	39	0	2290	68	70	0
1986	944	38	27	0	8118	209	139	0	796	24	44	0	3212	75	57	2
1987	1222	35	42	1	11482	208	156	2	1091	35	43	0	4103	80	84	0
1988	1730	57	38	1	15049	222	177	0	1599	39	70	0	5815	138	104	0
1989	2053	48	43	0	19867	225	283	0	1635	29	41	0	6765	126	100	1
1990	2118	50	45	0	21711	169	368	1	1584	19	60	0	6976	90	111	2
1991	2139	17	27	1	22925	183	354	0	1614	11	62	0	7467	61	99	2
1992	2426	18	38	0	26363	205	304	1	1898	15	42	0	8282	59	104	0
1993	2989	24	48	1	30004	250	322	1	2145	17	57	0	9217	93	143	2
1994	3023	30	54	1	31836	312	414	4	2229	30	57	1	9314	117	230	0
1995	3688	60	67	0	38092	548	562	3	2597	35	85	0	10339	167	249	0
1996	3195	27	62	0	34370	330	669	0	2250	25	73	0	8871	122	215	1
1997	3617	51	54	0	38513	526	763	2	2363	27	72	0	9586	162	193	3
1998	3552	34	28	2	39894	691	857	8	2590	19	63	1	10100	119	252	0
1999	3421	84	75	1	40873	731	1318	9	2564	30	85	0	10748	182	193	4
2000	3743	79	94	2	46978	965	1388	18	2903	51	98	1	13046	249	260	3
2001	2791	85	74	0	39975	890	1026	12	2316	46	84	0	11094	258	191	9
2002	1110	49	32	0	17037	338	535	13	842	21	45	0	5132	123	101	0
2003	3	0	0	0	23	0	0	0	0	0	0	0	5	0	0	0
Totals	46519	1018	1013	11	503843	7727	102651	76	34931	606	1219	3	149253	2769	2980	30

	Oneida				Onondaga				Ontario				Orange			
	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)
1965	96	5	0	0	191	4	0	0	65	7	2	0	153	4	1	0
1966	113	5	2	0	207	6	5	1	65	2	0	0	181	3	8	0
1967	141	6	0	0	258	9	2	0	64	5	1	0	241	15	2	0
1968	114	8	0	0	196	15	2	0	55	4	1	0	215	10	1	0
1969	150	7	2	0	315	11	1	0	74	9	2	0	224	21	3	0
1970	135	12	0	0	243	12	7	0	61	4	1	0	209	19	4	0
1971	115	17	3	0	198	11	4	0	67	6	1	0	193	18	6	1
1972	130	27	6	0	249	17	8	0	79	9	2	0	216	15	10	0
1973	152	18	6	0	233	26	11	0	80	11	4	0	218	32	17	0
1974	123	18	8	0	208	31	13	0	68	10	2	0	187	24	17	0
1975	117	33	10	0	197	26	12	0	67	15	5	0	143	32	13	0
1976	170	26	9	0	275	23	9	0	90	10	6	0	227	25	8	0
1977	256	32	14	0	394	41	13	0	133	20	6	0	328	28	14	0
1978	356	28	16	0	509	51	37	0	192	20	17	0	464	60	27	0
1979	439	41	20	0	636	78	31	0	251	19	15	0	629	75	58	0
1980	236	28	22	0	360	31	46	1	110	18	16	0	460	36	42	0
1981	295	23	22	0	396	28	59	0	161	15	12	0	494	40	76	0
1982	337	30	41	0	534	43	76	0	217	16	24	0	670	57	81	1
1983	598	37	31	0	899	53	71	0	353	25	19	0	1089	55	113	0
1984	1112	49	59	0	1711	140	129	0	579	29	44	0	2091	71	105	0
1985	1534	57	81	0	2598	245	159	0	947	46	48	0	3277	122	158	0
1986	2517	83	77	0	3991	204	139	0	1384	60	47	0	4916	173	158	2
1987	3527	62	95	0	5466	258	192	0	1804	68	52	1	6948	195	226	1
1988	5338	132	102	0	8224	273	162	2	2411	101	71	0	8581	255	222	2
1989	6475	102	131	0	10288	227	304	2	3120	89	86	0	9621	183	218	0
1990	6923	69	116	0	11855	202	320	2	3170	63	85	0	9914	127	235	1
1991	7151	62	104	1	12014	118	336	2	3500	46	67	1	10223	75	187	1
1992	8437	57	110	0	14423	137	293	1	4006	46	104	0	11041	116	159	0
1993	9710	52	128	0	17324	179	384	1	4669	68	104	1	12925	129	215	0
1994	10043	105	130	0	18945	263	389	3	4942	83	113	1	14156	197	286	1
1995	11847	103	223	0	22602	331	738	13	5566	91	122	0	16886	288	452	2
1996	10636	72	175	0	20643	235	688	3	5273	65	139	0	15239	218	349	4
1997	11754	132	153	1	23786	448	819	9	5662	97	109	0	17417	298	452	4
1998	11936	68	198	3	25710	387	661	6	5907	77	120	0	18513	227	359	4
1999	11746	167	246	2	27909	692	1301	3	5792	149	166	0	19283	387	643	4
2000	13104	149	248	1	32049	710	1203	5	6070	159	200	0	23129	501	693	6
2001	10075	174	228	1	27081	799	941	2	4767	136	146	1	19899	494	519	4
2002	4098	83	107	0	10315	295	365	0	1973	56	56	0	8023	223	284	6
2003	6	0	0	0	13	2	0	0	7	2	0	0	18	1	0	0
Totals	152042	2179	2923	9	303445	6661	9930	56	73801	1756	2015	51	238641	4849	6421	44

	Orleans				Oswego				Otsego				Putnam			
	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)
1965	28	2	0	0	76	1	1	0	34	3	0	0	71	1	0	0
1966	31	0	1	0	75	3	0	0	47	4	0	0	70	2	0	0
1967	33	3	1	0	96	3	1	0	42	3	2	0	93	2	1	0
1968	36	3	0	0	81	8	1	0	43	3	0	0	84		0	
1969																
1970																
1971																
1972																
1973	35	10	1	0	65	15	13	0	60	14	3	0	97	10	5	0
1974	13	7	13	0	60	11	12	0	57	10	7	0	62	10	5	0
1975	22	3	5	0	53	15	7	0	39	16	7	0	51	12	5	0
1976	42	6	4	0	116	19	2	0	74	12	2	0	85	9	6	0
1977	63	8	2	0	155	25	15	0	115	12	10	0	124	7	7	0
1978	108	12	3	0	214	33	11	0	141	25	5	0	148	13	8	0
1979	134	17	5	0	287	42	22	0	194	21	15	0	213	22	21	0
1980	59	7	4	0	146	14	15	0	108	13	19	0	143	12	12	0
1981	93	10	10	0	171	17	24	0	127	6	13	0	176	15	34	0
1982	108	7	15	0	240	24	38	0	168	11	21	0	195	23	35	1
1983	207	12	12	0	397	28	26	0	251	11	25	0	338	24	29	0
1984	323	9	15	0	732	32	42	0	487	22	35	0	654	37	28	0
1985	491	16	17	0	951	54	37	0	665	19	37	0	999	45	51	0
1986	742	16	17	0	1646	79	62	0	983	30	27	0	1464	56	51	0
1987	933	22	19	0	2092	79	51	0	1434	32	29	0	1988	69	81	0
1988	1362	31	22	0	3304	86	66	0	1847	54	45	0	2516	88	76	1
1989	1561	25	21	0	3790	69	64	0	1983	34	29	2	3012	66	62	2
1990	1604	14	25	0	3756	61	70	0	1913	21	38	0	3051	35	44	0
1991	1646	13	14	0	3962	30	78	0	2088	21	38	1	3285	35	45	0
1992	1867	19	15	0	4471	35	67	0	2182	15	32	0	3531	30	48	1
1993	1913	20	27	0	5498	58	114	0	2623	22	51	0	4298	36	49	1
1994	1910	20	32	0	5850	82	76	1	2665	30	35	0	4562	63	76	1
1995	2101	21	46	0	6553	102	122	0	3322	37	50	0	5768	133	127	1
1996	1727	21	18	0	5338	66	116	0	2829	31	48	0	4883	62	67	1
1997	1922	24	28	0	6076	89	99	1	2971	36	58	0	5739	106	97	3
1998	1818	21	19	0	6442	75	155	3	3141	22	58	1	5980	89	77	0
1999	1662	22	30	1	5862	134	276	2	2966	49	78	0	6923	150	173	2
2000	1807	41	56	0	6356	152	244	0	3151	51	88	1	8142	186	197	0
2001	1466	31	36	1	5108	176	238	1	2619	41	77	2	7761	190	136	4
2002	673	16	15	0	1985	87	59	0	991	26	34	0	3022	77	67	0
2003	1	0	0	0	2	0	0	0	1	0	0	0	10	0	0	0
Totals	28683	531	555	21	82352	1843	2248	8	42557	788	1028	7	79964	1747	1730	18

	Rensselaer				St Lawrence				Saratoga				Schenectady			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	74	3	0	0	39	3	0	0	98	0	0	0	56	2	0	0
1966	72	2	1	0	62	7	0	0	102	2	1	0	76	2	0	0
1967	102	2	1	0	64	4	0	0	126	4	1	0	88	3	0	0
1968	91	6	3	0	58	9	1	0	107	2	2	1	81	3	2	0
1969	104	9	2	0	64	4	0	0	137	4	4	0	89	2	2	0
1970	99	7	3	0	54	8	1	0	139	8	4	0	76	5	1	0
1971	95	2	4	0	52	7	2	0	97	9	5	0	97	6	2	0
1972	86	15	4	0	62	9	3	0	144	8	11	0	100	11	4	0
1973	94	18	9	0	80	12	3	0	121	15	7	0	84	8	4	0
1974	82	10	9	0	44	11	2	0	92	12	9	0	86	7	4	0
1975	80	15	3	0	46	12	3	0	103	18	8	0	67	5	5	0
1976	120	19	9	0	87	14	2	0	128	22	2	0	106	12	5	0
1977	181	27	14	0	127	21	10	1	205	13	6	0	165	20	5	0
1978	232	20	13	0	174	21	10	0	292	31	16	0	215	20	7	0
1979	299	34	30	0	220	26	17	0	309	32	28	0	272	20	16	0
1980	155	23	27	0	116	23	13	0	234	24	25	0	171	15	17	0
1981	222	23	34	0	144	11	23	0	263	21	34	0	233	13	15	1
1982	301	23	41	0	210	18	20	0	337	21	36	0	261	15	16	0
1983	503	30	33	0	333	18	21	0	527	26	35	0	508	18	23	0
1984	954	54	66	0	705	39	37	1	1097	55	63	0	956	29	33	0
1985	1406	47	69	0	916	34	44	0	1647	67	87	0	1358	28	43	0
1986	2264	72	76	0	1330	35	55	1	2514	114	113	0	2158	42	50	0
1987	3042	86	103	0	1865	56	65	0	3571	112	145	0	3024	64	49	1
1988	4307	104	98	0	2852	74	71	0	5118	134	124	1	4108	64	61	0
1989	4642	94	104	1	3084	54	69	0	5679	126	112	3	4607	71	59	0
1990	4718	54	65	0	3019	48	67	0	5939	79	92	0	4690	47	51	1
1991	4989	40	57	0	3345	24	58	0	6195	49	77	1	4767	36	41	0
1992	5374	41	49	2	3899	28	51	0	7241	63	75	0	5606	42	47	0
1993	6364	60	79	0	4380	36	105	0	8497	78	99	4	6324	50	58	0
1994	6818	81	88	0	4831	51	86	0	9394	111	118	1	6776	79	77	2
1995	7573	91	147	0	5343	54	140	2	11316	182	169	1	7740	99	92	1
1996	6569	110	119	1	4641	41	80	1	10048	106	154	0	6962	76	94	0
1997	7247	130	119	2	5469	51	96	0	11635	182	195	1	7690	112	84	2
1998	7434	115	134	7	5678	39	76	2	12230	134	161	4	7872	107	75	3
1999	7916	185	198	1	5147	65	163	1	12932	207	277	6	8409	194	127	4
2000	8802	187	191	3	5796	70	157	3	14424	279	321	4	9885	207	155	3
2001	7551	220	183	1	4097	77	134	3	12672	308	317	3	8541	204	155	3
2002	3112	90	79	0	1676	35	45	1	5080	133	139	0	3307	85	71	0
2003	5	0	0	0	2	0	0	0	12	0	0	0	5	0	0	0
Totals	104079	2149	2264	18	70111	1149	1730	16	150802	2791	3072	30	107616	1823	1550	21

	Schoharie				Schuyler				Seneca				Steuben			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	23	1	0	0	15	0	1	0	10	0	0	0	55	0	1	0
1966	36	1	2	0	9	1	0	0	22	1	2	0	52	4	0	0
1967	45	1	0	0	22	1	0	0	26	3	1	0	72	2	1	0
1968	31	3	0	0	26	1	0	0	25	3	0	0	50	1	2	0
1969	29	2	0	0	16	3	0	0	22	4	0	0	61	2	2	0
1970	39	12	2	0	13	2	0	0	19	1	1	0	68	11	4	0
1971	21	5	0	0	9	7	2	0	12	3	0	0	54	9	3	1
1972	45	12	1	0	22	4	2	0	20	5	1	0	77	9	0	0
1973	41	10	1	0	20	5	0	0	24	10	3	0	62	20	7	0
1974	30	10	1	0	22	3	4	0	19	9	3	0	69	14	8	0
1975	26	9	3	0	12	1	0	0	14	9	2	0	82	10	3	0
1976	37	8	5	0	38	1	1	1	38	4	5	0	112	14	6	0
1977	86	5	2	0	35	8	1	0	40	8	2	0	172	24	2	0
1978	112	13	7	0	64	6	7	0	78	8	7	0	217	30	16	0
1979	116	15	9	0	72	8	8	0	103	11	2	0	301	37	16	0
1980	68	5	8	0	44	3	5	0	60	9	6	0	130	25	13	0
1981	92	4	11	0	47	7	3	0	62	3	3	0	174	29	16	0
1982	125	8	14	0	55	8	8	0	80	3	10	0	249	26	24	0
1983	170	8	14	0	84	6	7	0	125	9	9	0	395	28	26	0
1984	329	16	22	0	189	8	7	0	244	7	20	0	813	40	48	0
1985	494	21	29	0	274	10	9	0	359	12	26	0	1172	40	45	0
1986	682	25	19	0	381	12	14	0	542	11	24	0	1638	63	57	0
1987	916	25	34	0	526	16	16	0	743	19	17	0	2407	52	51	1
1988	1201	44	40	0	743	14	16	0	1007	31	26	0	3148	58	58	0
1989	1262	33	29	0	774	9	17	0	1150	24	14	0	3523	59	69	0
1990	1211	19	30	0	775	12	12	3	1174	9	20	0	3611	43	50	0
1991	1151	10	20	0	804	7	16	0	1211	15	18	1	3786	44	52	0
1992	1268	11	22	0	832	13	15	0	1364	16	15	0	4088	37	49	0
1993	1439	10	21	0	883	10	10	2	1567	14	25	0	4633	37	65	0
1994	1437	16	27	3	915	9	21	1	1603	23	23	0	4883	44	63	0
1995	1703	26	45	0	1058	19	16	0	1836	22	30	0	5628	58	75	1
1996	1406	10	40	0	936	15	23	0	1575	17	24	0	4824	42	82	0
1997	1530	28	47	2	960	11	15	0	1743	21	25	1	5333	51	82	1
1998	1701	19	31	1	948	9	13	1	1724	18	13	1	5395	42	62	2
1999	1652	22	57	0	768	22	18	0	1594	23	41	0	4517	59	127	0
2000	1663	46	56	0	792	9	22	0	1579	26	38	0	4642	79	113	0
2001	1383	46	53	0	571	13	10	1	1215	34	21	2	3361	76	126	3
2002	502	20	30	0	206	7	5	0	479	10	15	1	1123	33	21	0
2003	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	24103	579	732	6	13960	300	324	9	23508	455	492	6	70977	1252	1445	9

	Sullivan				Tioga				Tompkins				Ulster			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	46	4	0	0	41	0	0	0	27	2	0	0	96	7	3	0
1966	54	2	1	0	41	3	0	0	49	2	1	0	125	5	3	0
1967	58	3	0	0	35	6	0	0	55	4	0	0	142	15	2	0
1968	56	6	1	0	43	5	1	0	39	3	0	0	162	12	4	0
1969	63	6	1	0	27	7	1	0	41	4	2	0	200	8	5	0
1970	57	5	2	0	30	6	0	0	51	4	0	0	190	23	4	0
1971	41	7	3	0	38	10	1	0	56	5	1	0	156	24	6	0
1972	65	13	4	0	37	9	2	0	59	6	5	0	202	17	6	0
1973	83	16	4	0	49	19	3	0	74	13	5	0	179	27	11	0
1974	54	8	8	0	48	12	8	0	53	8	3	0	170	26	11	0
1975	57	9	11	0	32	14	6	0	50	7	4	0	113	30	7	0
1976	92	10	6	0	55	14	1	0	56	12	6	0	199	29	10	0
1977	133	13	7	0	95	13	4	0	87	14	9	0	282	39	17	0
1978	155	8	11	0	141	25	11	0	142	17	4	0	451	39	32	0
1979	234	22	17	0	162	32	15	0	171	11	15	0	577	56	44	0
1980	145	12	18	0	100	15	6	0	105	16	12	0	380	51	39	0
1981	167	15	24	0	114	9	15	0	137	9	20	0	372	41	52	0
1982	230	26	23	0	158	12	15	0	191	9	9	0	561	42	89	0
1983	352	32	25	0	252	12	21	0	284	14	21	0	877	54	65	0
1984	720	36	36	0	505	20	27	0	524	15	21	0	1668	78	83	0
1985	1050	30	65	1	707	20	36	0	786	27	30	1	2561	89	94	0
1986	1523	40	61	0	1058	55	39	1	1185	35	24	0	3830	114	82	0
1987	2091	71	65	0	1408	42	30	0	1717	34	31	0	5326	120	121	0
1988	2589	71	58	0	1790	52	48	0	2270	43	26	1	6395	182	149	0
1989	2918	42	69	2	2079	25	33	0	2570	51	40	0	6782	149	136	0
1990	2779	57	81	0	1950	30	26	0	2774	42	50	0	6735	81	134	0
1991	2676	26	65	0	2208	17	22	0	2982	36	46	0	6701	65	109	1
1992	2636	27	59	1	2253	18	39	0	3032	34	42	1	6806	78	92	1
1993	3225	34	92	0	2574	23	24	0	3621	33	56	0	7592	72	135	3
1994	3180	52	123	0	2650	25	48	0	3726	39	47	2	7943	129	153	3
1995	3625	67	182	0	3037	37	57	0	4489	83	68	0	9259	198	223	1
1996	3044	52	108	0	2518	16	46	1	3618	50	43	1	7909	123	164	0
1997	3520	74	109	0	2845	23	47	0	4172	50	68	0	8751	172	231	0
1998	3558	88	80	3	2665	33	37	0	4494	50	44	2	8712	157	116	1
1999	3909	85	166	1	2133	37	57	0	3890	73	84	0	8891	174	271	0
2000	4576	144	141	1	2164	52	45	0	4015	93	64	5	9989	241	319	4
2001	4122	114	151	1	1556	44	48	0	3278	70	89	7	8972	259	236	2
2002	1616	50	59	2	516	15	15	2	1253	29	37	4	3522	103	134	2
2003	12	0	0	0	2	0	0	0	6	0	0	0	10	0	0	0
Totals	55511	1377	1936	12	38116	807	834	4	56129	1047	1027	24	133788	3137	3392	18

	Warren				Washington				Wayne				Wyoming			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	39	0	0	0	39	1	1	0	73	0	0	0	23	1	0	0
1966	35	2	1	0	46	2	1	0	76	4	0	0	36	3	1	0
1967	33	3	0	0	47	2	1	0	82	2	0	0	36	1	0	0
1968	39	4	0	0	49	7	0	0	71	3	3	0	37	3	1	0
1969	55	7	0	0	62	2	1	0	90	3	0	0	42	1	0	0
1970	39	3	0	0	52	8	2	0	80	4	2	0	29	3	0	0
1971	33	4	1	0	43	4	0	0	95	7	1	0	40	5	1	0
1972	46	5	4	0	55	8	4	0	87	7	3	0	35	4	0	0
1973	50	8	3	0	35	12	2	0	84	8	3	0	31	5	4	0
1974	45	6	3	0	32	7	4	0	96	10	6	0	30	7	1	0
1975	37	7	2	0	40	10	4	0	64	17	3	1	24	10	1	0
1976	51	7	1	0	62	13	4	0	103	13	5	0	39	6	1	0
1977	104	11	4	1	94	12	5	0	167	27	3	0	64	9	2	0
1978	125	10	9	0	121	22	9	0	232	24	7	0	100	19	8	0
1979	121	18	13	0	142	26	18	0	312	33	16	0	104	14	10	0
1980	88	11	11	0	91	17	15	0	146	14	15	0	72	12	8	0
1981	103	16	18	0	120	13	15	0	168	9	19	0	83	11	7	0
1982	148	11	21	0	165	9	22	0	248	15	22	0	112	9	15	0
1983	222	14	20	0	233	18	18	0	378	14	34	0	160	7	15	0
1984	438	22	23	0	485	33	29	0	694	36	29	0	315	13	28	0
1985	681	32	31	0	755	27	35	0	1047	52	37	0	379	18	27	0
1986	997	35	51	0	1139	43	35	0	1480	56	55	1	590	20	27	0
1987	1322	37	56	1	1430	45	45	0	1938	39	48	1	778	32	24	0
1988	1809	59	45	1	2074	59	47	0	2716	63	58	0	1171	20	28	0
1989	2071	34	33	0	2203	40	57	0	3226	67	63	0	1370	36	48	0
1990	1996	28	34	0	1984	27	30	0	3304	53	74	0	1407	22	39	0
1991	1989	29	30	0	2123	20	20	0	3411	30	61	0	1523	15	30	0
1992	2238	18	26	0	2253	12	28	0	3821	42	50	0	1670	17	50	1
1993	2801	30	43	0	2683	28	27	1	4450	49	72	0	1886	25	68	0
1994	2926	39	56	2	2833	33	39	0	4529	55	74	0	1965	18	64	0
1995	3525	59	66	0	3130	50	59	0	5150	82	102	1	2103	30	67	0
1996	3089	36	49	0	2628	32	53	0	4758	77	72	2	1750	29	61	0
1997	3654	68	69	1	2921	46	61	2	5099	95	79	0	2145	32	68	0
1998	3858	43	52	0	2963	33	70	0	5358	75	68	1	2168	27	80	1
1999	4010	82	119	1	2805	49	93	0	4858	134	141	1	1896	48	127	1
2000	4572	87	92	3	3001	47	97	0	5200	133	98	2	2051	49	65	0
2001	3758	89	66	1	2538	65	69	0	4013	156	90	1	1612	45	68	0
2002	1655	52	27	0	949	30	31	2	1553	56	29	1	693	17	28	0
2003	4	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
Totals	48806	1026	1079	11	42426	912	1051	5	69257	1564	1442	12	28569	643	1072	3

	Yales				Upstate New York Total			
	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs.	Gas Fuel > 8500 lbs.	Diesel Fuel (All)	Other Fuel (All)
1965	15	0	0	0	3277	117	18	0
1966	20	1	0	0	4023	130	49	1
1967	19	1	0	0	4581	229	40	0
1968	22	2	0	0	4354	264	58	2
1969	27	3	1	0	5158	291	75	1
1970	15	3	0	0	4693	378	139	1
1971	25	4	2	0	4137	418	153	2
1972	19	6	1	0	5014	516	212	0
1973	7	4	2	0	4705	764	302	0
1974	23	4	3	0	4066	660	355	0
1975	24	13	2	0	3670	744	334	1
1976	31	4	2	0	5740	757	252	1
1977	36	8	0	0	8452	1010	397	2
1978	56	9	2	0	11818	1262	670	1
1979	97	13	3	0	14707	1614	1015	1
1980	48	7	8	0	8718	990	964	2
1981	64	3	4	0	10247	884	1188	1
1982	60	5	3	0	13628	1006	1467	4
1983	120	12	8	0	21988	1129	1420	0
1984	205	11	17	0	43006	1908	2222	2
1985	295	10	18	0	63077	2431	2837	6
1986	371	20	10	0	94196	3151	3052	9
1987	531	15	11	0	129193	3425	3434	13
1988	732	17	10	0	176865	4282	3708	19
1989	917	25	16	0	204956	3679	4015	22
1990	820	16	15	0	211923	2744	4133	22
1991	890	12	19	0	223087	1986	3665	14
1992	988	17	11	0	249272	2255	3435	18
1993	1047	6	19	0	287115	2683	4701	31
1994	1110	10	19	1	303462	3736	5457	54
1995	1164	16	26	1	354093	5222	7713	65
1996	1090	7	26	0	309662	3694	6446	49
1997	1171	16	20	1	349047	5440	7305	91
1998	1184	20	27	2	364192	4650	6694	152
1999	1096	27	23	0	368284	7245	11132	99
2000	1081	24	24	0	419539	8499	11197	106
2001	780	19	32	1	367592	8693	9042	118
2002	342	9	6	0	152156	3647	4047	62
2003	0	0	0	0	267	5	0	0
Totals	16542	399	390	6	4813960	92538	113343	972

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	Bronx				Kings				Nassau			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	65	1	1	0	135	2	0	0	552	7	3	0
1966	89	1	0	0	156	1	3	0	674	6	6	0
1967	82	2	0	0	170	0	0	0	760	12	2	1
1968	90	1	0	0	191	6	5	0	715	17	6	0
1969	119	2	5	0	223	4	6	0	1020	27	7	0
1970	118	4	9	0	221	7	12	0	820	30	20	1
1971	127	2	5	0	229	11	20	0	730	19	8	0
1972	142	9	4	0	298	11	8	0	829	42	20	1
1973	138	9	3	0	294	18	10	0	777	61	28	0
1974	149	9	12	0	223	9	19	0	692	38	40	0
1975	154	9	8	0	267	10	21	0	591	44	30	0
1976	206	3	6	0	372	13	19	0	845	39	32	0
1977	332	9	12	0	537	28	26	0	1124	86	59	1
1978	447	18	17	0	743	33	51	0	1509	87	77	0
1979	651	22	39	0	1138	38	102	0	2231	120	126	1
1980	604	25	48	0	966	44	92	0	1836	125	206	0
1981	760	26	39	0	1166	42	125	0	1937	93	236	0
1982	955	27	100	0	1597	60	138	0	2462	101	323	1
1983	1682	24	83	0	2721	46	113	0	4346	123	446	1
1984	3029	48	106	0	4669	104	215	0	8027	209	526	1
1985	5064	73	139	2	7969	139	264	1	12740	291	543	1
1986	7601	78	103	2	11806	139	333	0	19263	432	477	0
1987	11241	102	207	3	17560	205	493	5	27555	457	612	8
1988	13578	122	204	2	21459	256	471	2	32542	489	572	9
1989	15014	94	164	3	24844	267	392	9	38254	494	482	7
1990	18097	101	222	2	28023	226	631	3	40537	424	587	10
1991	16228	73	120	1	25152	141	405	7	39298	263	456	15
1992	16752	74	132	2	28832	174	488	10	41580	323	468	12
1993	16971	107	206	3	29488	178	566	5	47355	330	754	8
1994	15656	134	230	3	27424	267	607	3	47411	471	845	8
1995	17499	179	341	2	30472	354	1095	76	56279	726	1040	15
1996	14191	114	242	5	25533	281	528	39	49287	410	731	7
1997	14936	147	203	4	27501	312	582	2	56841	635	900	13
1998	15210	114	271	2	27074	257	720	4	62624	485	868	35
1999	13772	168	370	4	26186	417	903	10	83017	848	1426	53
2000	16217	231	389	5	31279	543	1279	4	104738	1003	1486	17
2001	14980	214	245	2	27953	447	912	10	98190	831	976	30
2002	6155	72	81	1	11110	136	303	6	39510	267	464	4
2003	13	0	0	0	23	0	0	0	82	0	0	0
Totals	259114	2448	4366	48	446004	5226	11957	196	929580	10465	15888	260

	New York				Queens				Richmond			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	156	0	1	0	198	1	0	0	104	0	0	0
1966	174	1	0	0	282	4	1	1	143	0	0	0
1967	211	0	0	0	321	3	4	0	149	1	0	0
1968	160	0	1	0	339	6	0	1	155	1	4	0
1969	208	1	0	0	432	7	4	0	180	2	4	1
1970	223	6	2	0	427	10	8	0	167	2	2	0
1971	232	1	2	0	377	12	10	0	139	3	2	1
1972	273	8	1	1	485	15	15	0	178	9	3	0
1973	275	18	2	0	513	31	20	1	155	10	5	0
1974	233	14	2	0	426	23	21	0	138	7	5	0
1975	197	11	3	0	439	25	16	0	125	4	4	0
1976	294	15	8	0	619	51	20	1	168	3	5	0
1977	328	10	11	0	916	62	27	0	237	10	7	0
1978	416	21	17	0	1126	34	79	0	363	10	14	0
1979	604	38	35	0	1679	71	133	0	435	9	19	0
1980	515	16	63	1	1581	76	161	1	413	15	33	0
1981	538	7	82	0	1722	69	198	1	448	8	35	0
1982	763	31	89	0	2204	92	245	0	537	23	53	1
1983	1231	12	119	0	3944	81	325	0	974	18	64	0
1984	2208	62	142	0	7413	175	393	0	1875	35	71	0
1985	3401	133	115	1	11724	273	411	1	3024	34	127	0
1986	5033	90	62	0	18053	293	332	3	4942	69	271	1
1987	7359	93	96	0	26851	412	633	7	7009	63	308	3
1988	8585	165	107	2	32481	478	738	5	8814	98	188	1
1989	9849	105	139	2	38444	330	619	6	10458	79	172	2
1990	11948	159	114	5	43664	319	679	16	11049	57	328	5
1991	11006	80	75	4	40652	283	558	41	10419	44	106	4
1992	11653	103	85	4	43191	263	574	37	11617	40	138	4
1993	12891	107	119	2	46174	290	754	7	12962	43	211	1
1994	12423	158	145	2	44272	363	669	100	12598	59	214	4
1995	15177	297	291	4	50309	627	1071	50	14235	90	315	4
1996	12858	137	194	2	42536	367	661	5	12106	45	225	2
1997	14692	322	206	15	46077	559	862	14	13685	96	298	4
1998	16605	218	200	5	46256	421	853	54	15111	126	295	5
1999	20274	439	270	2	46502	678	1200	131	19931	117	483	2
2000	25395	538	335	6	56100	907	1412	15	26735	190	644	5
2001	24806	472	304	6	54356	730	937	13	24968	185	388	6
2002	8982	95	105	6	22854	188	370	2	11149	56	73	1
2003	23	0	0	0	48	0	1	0	22	0	0	0
Totals	242199	3983	3542	70	735987	8629	15014	513	237917	1661	5114	57

	Rockland				Suffolk				Westchester			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	73	2	0	0	798	13	5	0	348	8	0	1
1966	115	0	0	0	1015	17	7	0	412	9	3	1
1967	109	4	0	0	1164	20	10	2	476	7	1	1
1968	109	1	0	0	1067	22	17	0	390	10	4	0
1969	165	4	1	0	1424	40	24	2	478	19	9	0
1970	139	8	3	0	1312	50	30	0	472	24	14	1
1971	114	0	2	0	1097	52	37	1	480	20	11	0
1972	135	8	3	0	1223	77	45	0	505	43	13	1
1973	121	11	4	0	1064	109	51	0	437	46	16	0
1974	103	10	7	0	862	95	41	0	409	37	8	0
1975	76	5	3	0	762	83	60	1	371	56	19	0
1976	131	8	7	0	1125	134	44	0	494	52	11	0
1977	140	11	8	0	1555	163	72	0	604	86	46	0
1978	230	16	17	0	2062	161	118	0	824	74	58	0
1979	302	21	19	1	2994	199	251	1	1157	84	113	0
1980	222	21	39	0	2196	194	284	1	1043	83	143	1
1981	275	18	44	0	2439	211	370	1	1081	70	184	0
1982	368	19	71	1	3151	189	430	4	1416	68	244	1
1983	614	25	82	0	5656	218	489	2	2424	69	279	0
1984	1131	51	92	0	10483	453	724	2	4622	199	338	1
1985	1877	53	122	0	16297	567	829	7	7192	220	394	0
1986	2971	97	79	1	24965	849	818	2	11295	380	299	4
1987	4428	81	107	0	34129	743	1012	6	16329	390	440	2
1988	5564	130	117	1	40602	918	974	16	19815	439	499	1
1989	6871	123	99	0	46100	790	907	9	23369	369	459	11
1990	8105	74	107	1	47119	635	918	20	26316	317	423	8
1991	7864	51	81	2	45454	424	764	22	25542	211	371	3
1992	8740	63	98	0	47337	410	889	12	27543	209	389	12
1993	10719	74	139	0	56288	513	1022	14	30907	237	440	10
1994	10908	120	150	2	58606	806	1265	17	32587	399	595	40
1995	13145	151	253	2	68472	1192	1782	14	39316	580	886	28
1996	11684	115	174	0	59111	788	1341	8	34283	349	635	7
1997	13290	169	249	1	66553	1368	1469	17	39544	571	643	10
1998	14752	110	208	2	70959	1121	1543	32	44737	541	855	14
1999	18934	240	411	2	88346	2056	2602	17	56613	662	1220	11
2000	23678	267	358	3	108091	2529	2951	20	71261	774	1274	9
2001	22232	266	265	9	99196	2318	2259	33	68516	674	780	37
2002	9289	108	146	4	39019	678	976	13	27893	239	313	15
2003	33	0	0	0	52	0	0	0	55	0	0	0
Totals	199756	2543	3565	32	1060145	21205	27430	296	621556	8625	12429	230

	Total NYMA			
	Gas Fuel <8500 lbs	Gas Fuel > 8500 lbs	Diesel Fuel (All)	Other Fuel (All)
1965	2429	34	10	1
1966	3060	39	20	2
1967	3442	49	17	4
1968	3216	64	37	1
1969	4249	106	60	3
1970	3899	141	100	2
1971	3525	128	97	2
1972	4068	222	112	3
1973	3774	313	139	1
1974	3235	242	155	0
1975	2982	247	164	1
1976	4254	318	152	1
1977	5773	465	268	1
1978	7720	454	448	0
1979	11191	602	837	3
1980	9376	599	1069	4
1981	10366	544	1313	2
1982	13453	610	1693	8
1983	23592	616	2000	3
1984	43457	1336	2607	4
1985	69288	1783	2944	13
1986	105929	2427	2774	13
1987	152461	2546	3908	34
1988	183440	3095	3870	39
1989	213203	2651	3433	49
1990	234858	2312	4009	70
1991	221615	1570	2936	99
1992	237245	1659	3261	93
1993	263755	1879	4211	50
1994	261885	2777	4720	179
1995	304904	4196	7074	195
1996	261589	2606	4731	75
1997	293119	4179	5412	80
1998	313328	3393	5813	153
1999	373575	5625	8885	232
2000	463494	6982	10128	84
2001	435197	6137	7066	146
2002	175961	1839	2831	52
2003	351	0	1	0
Totals	4732258	64785	99305	1702



**APPENDIX M County Metrics on Number of Stations and Inspectors**

County	Dealer inspection stations	Fleet inspection stations	Public inspection stations	Total stations	Certified Inspectors
					Possible # of stations as of 11/02 - Upstate
ALBA	6	70	261	337	1085
ALLE	2	14	65	81	338
BROO	3	38	187	228	844
CATT	3	18	96	117	517
CAYU	4	15	92	111	454
CHAU	5	35	167	207	705
CHEM	1	19	82	102	351
CHEN	2	9	82	93	293
CLIN	8	15	100	123	391
COLU	3	13	72	88	378
CORT	2	12	55	69	259
DELA	3	16	73	92	288
DUTC	4	53	253	310	1338
ERIE	24	184	868	1076	4421
ESSE	2	12	35	49	166
FRAN	2	16	66	84	216
FULT	2	12	77	91	319
GENE	4	17	85	106	457
GREE	4	10	68	82	305
HAMI	0	8	6	14	40
HERK	6	9	66	81	392
JEFF	9	19	133	161	540
LEWI	2	4	31	37	166
LIVI	5	14	83	102	481
MADI	6	8	82	96	446
MONR	14	113	539	666	2538
MONT	0	11	60	71	295
NIAG	5	36	233	274	1306
ONEI	8	45	286	339	1008
ONON	10	98	405	513	1899
ONTA	4	28	123	155	557
ORAN	8	50	320	378	1325
ORLE	1	9	58	68	312
OSWE	8	27	150	185	843
OTSE	2	10	79	91	309
OUTS	0	14	1	15	1006
PUTN	0	18	83	101	458

County	Dealer inspection stations	Fleet inspection stations	Public inspection stations	Total stations	Certified Inspectors
Possible # of stations as of 11/02 - Upstate					As of 12/02
RENS	6	28	157	191	936
SARA	9	39	157	205	1036
SCHE	3	28	170	201	806
SCHO	2	7	50	59	262
SCHU	0	3	32	35	134
SENE	5	8	44	57	213
STEU	3	20	149	172	702
STLA	6	32	153	191	594
SULL	0	19	94	113	410
TIOG	0	6	54	60	315
TOMP	5	15	81	101	303
ULST	3	31	175	209	907
WARR	5	18	74	97	339
WASH	1	7	70	78	344
WAYN	4	12	112	128	640
WYOM	3	9	62	74	399
YATE	1	2	31	34	169
Totals Upstate	228	1383	7187	8798	35555

County	Possible # of stations as of 11/02 - NYMA			Total stations	Inspectors
BRON	2	26	261	289	1310
KING	4	42	576	622	2512
NASS	16	67	840	923	4345
NEWY	3	24	125	152	433
QUEE	9	77	658	744	4092
RICH	0	9	146	155	1104
ROCK	6	9	149	164	684
SUFF	19	69	903	991	6327
WEST	11	56	487	554	2076

Totals NYMA	70	379	4145	4594	22883
<b>Statewide</b>	<b>298</b>	<b>1762</b>	<b>11332</b>	<b>13392</b>	<b>58438</b>

**Definitions:**

Dealer Inspection Station: only performs inspections on vehicles owned by the dealership.

Fleet Inspection Station: only performs inspections on vehicles owned by the fleet

Public Inspection Station: performs inspections for the public, and may perform an inspection on any vehicle

County = OUTS: Out-of-State

Revisions to the NYTEST Technical Specifications

Optional NYTEST On-board Diagnostic (OBD II) Testing  
(rev. 11/24/03)

Section I  
Section VIII

If the inspector indicates "No" the failure is noted on the inspection record, and the test system will proceed to the appropriate emission test.

If the inspector indicates, "Yes", the inspector is instructed to "Place the replacement gas cap on the tester the pressure check, and begin the pressure test when ready."

If the gas cap is unable to be tested, the inspector will be able to select "Gas Cap unable to be tested". The test system will proceed with the test and the INSPREC.DAT file will be marked as "B" in the Gas Cap Result field.

### **On-Board Diagnostics General**

An on-board diagnostic check will be performed on all MY 1996 and newer non-electric and non-diesel fueled vehicles with a vehicle weight up to and including 8,500 lbs. The test will be performed on vehicles not subject to the two-year new vehicle exemption.

A vehicle will fail the OBD inspection for any one, or combination of, the following conditions:

1. broken or missing vehicle diagnostic link connector (DLC),
2. vehicle cannot communicate and voltage is less than or equal to 8 volts,
3. failure for the visual Malfunction Indicator Light (MIL) evaluation during key on/engine off (KO/EO),
4. failure for the visual Malfunction Indicator Light (MIL) evaluation during key on/engine running (KO/ER),
5. the vehicle's power train control module (PCM) commands the MIL to be on, AND emission-related diagnostic trouble code(s) are reported,
6. the number of monitors reported as "Not Ready" or "Not Complete" exceeds the allowable amount as defined by the readiness small file YYYYMMDD.RED file (RED). (NYTEST software must be able to recognize specific make/model/model year combinations.)

An "Inspection Rejection Notice-On-board Diagnostic Test" (OBD Rejection Notice) will provide Diagnostic Trouble Code (DTC) information when applicable. The descriptions of noted DTCs on the OBD Rejection Notice will be based on SAE J2012 revised April 2002. This Notice will also include the listing of the monitors found "Not Complete" only if the vehicle failed for readiness as prescribed by the YYYYMMDD.RED file. See NYTEST Specification Section VIII, Reports Generated Onsite for definitions and an example of the OBD Inspection Rejection Notice.

All OBD II data elements will be electronically written in the INSPREC.DAT file as defined in SECTION IV of the NYTEST software specification. Specifically, these elements include the

emission test type and result, PID and PCM codes, OBD system voltage (rounded to the nearest whole number), visual MIL check results, MIL commanded on status, monitor support and readiness indicator status, and any DTC(s) found as a result of the OBD test. The binary data retrieved from a vehicle's on board computer will be stored in an ASCII format. There is space available for up to three DTC codes in the INSPREC.DAT file in positions #209-#223. If there are less than three DTCs, the remaining fields will be stored as blanks. All other data elements necessary to identify the vehicle, facility and inspector along with the results of the safety, gas cap, and ECD inspection will also be recorded according to the specification defined in SECTION IV (Inspection Record). For vehicles passing the OBD test, the emission test limits and emission test results of the safety/emission sticker will be filled as "OBD."

It will be the responsibility of the NYTEST system vendor to identify the support and readiness status of OBD Monitors for the vehicle undergoing the test. These results will be stored in the SUPPORTED\_HEX field (INSPREC.DAT positions #387-#389) and the RN\_HEX field (INSPREC.DAT positions #383-#386) as defined in Section IV. Note that the results of the MIL commanded-on finding, visual MIL evaluations, and reasons why OBD communication could not be achieved are also stored within these HEX fields. Each bit leading to the development of the HEX fields must be assigned as either "0" or "1" to allow for the binary expression to be converted to the hexadecimal expression (e.g., blanks are not permitted). As such, NYTEST will need to default some of the HEX bits in cases where OBD communication cannot be established, as noted in Section IV.

See the flow chart document "Version #9 OBDINSP.VSD" for a diagram of the OBD inspection test process.

### On-Board Diagnostic Test Process

After the safety, E.C.D., and the gas cap portions of the inspection have been performed, the Analyzer will prompt the inspector "Ready to perform the emission test?"

The OBD II Inspection procedure is as follows:

NYTEST will inform the inspector that an OBD test will be completed. The vehicle should NOT be running with the ignition switch in the "off" position for at least 30 seconds prior to starting the test. Either a statement that the vehicle must not be running for 30 seconds or a timed 30-second delay must be part of the NYTEST OBD II test.

### Connecting to the Vehicle's On-Board Computer

NYTEST will determine the next step in the OBD test sequence based on the Model Year and Vehicle Make recorded for the test vehicle. If the combination of 1996 as Model Year and

Mercedes Benz as Make have been selected, NYTEST will ask the inspector if the test vehicle is a 1996 Model Year Mercedes C36 AMG, C220, E320, S320, SL320, or C280? If the inspector selects "yes", the following message will appear:

These vehicles require a different test sequence due to potential false failures when the NYTEST OBD connector is plugged into the vehicle during the visual MIL inspections. For these vehicles only, the following sequence should be completed:

1. Do NOT plug the NYTEST OBD connector into the vehicle at the beginning of the test.
2. Complete the KO/EO and KO/ER visual MIL checks.
3. Following the KO/ER MIL check, shut the vehicle off and place the ignition switch in the "off" position.
4. Wait at least 12 seconds.
5. Plug the NYTEST OBD connector into the test vehicle to complete the remainder of the OBD inspection.

For all other OBD-applicable vehicles (i.e., vehicles that are not 1996 Mercedes), NYTEST will not ask the Mercedes-based question above. For these vehicles AND if the inspector selects "no" to the question above, NYTEST will direct the inspector to make the OBD connection, "With the vehicle not running and the ignition switch in the "off" position, connect the approved test equipment to the vehicle's diagnostic link connector (DLC)." The NYTEST unit will automatically continue, or through a screen prompt instruct the inspector ("Press any key") to begin the test.

Evaluate the MIL (Malfunction Indicator Light) using the following criteria:

Key On/Engine Off The NYTEST system will display the following two prompts to the inspector: "Yes = MIL illuminates with Key On/Engine Off" or "No = MIL does NOT illuminate with Key On/Engine Off." The following message must be displayed to the inspector during the Key On/Engine Off MIL evaluation, "NOTE: The MIL may illuminate for a brief period of time on some vehicle models during this evaluation." The results of the Key On/Engine Off MIL check will be and recorded under the RN\_HEX field of the INSPREC.DAT file (Section IV) and, if applicable, reported on the OBD Inspection Rejection Notice (Section VIII).

Key On/Engine Running The NYTEST system will display the following two prompts to the inspector. "Yes = MIL stays illuminated after engine has started." or "No = MIL extinguishes once the engine is running." The results of the Key On/Engine Running MIL check will be recorded under the RN\_HEX field of the INSPREC.DAT file (Section IV) and, if applicable, reported on the OBD Inspection Rejection Notice (Section VIII).

Confirmatory re-testing of the Key On/Engine Off (KO/EO) and/or Key On/Engine Running (KO/ER) visual MIL Checks is/are required when either a) the OBD Inspection will fail for only one of both of these visual inspections, or b) a vehicle is precluded from an alternate emission test (i.e., voltage acceptable but no OBD communication) due to failure for just one or both of these criteria.

NYTEST will complete a check for voltage at PIN 16 of the vehicle's DLC. If communication is achieved, the OBD system voltage will be rounded to the nearest whole number and reported under positions #232-#233 of the INSPREC.DAT file (Section IV). (NOTE: Do not display the voltage measurement or make ANY reference that voltage is being measured to the inspector at any time.)

In the Event of Unsuccessful OBD II Communication:

Section A – OBD System Voltage at 8.0 Volts or Less.

If the voltage as measured through PIN 16 of the DLC, is 8.0 volts or less, prompt the inspector to retry the connection. **NYTEST will NOT authorize the Inspector to complete either a TRANSIENT or IDLE test as long as the measured voltage is 8.0 or less.** The suggested prompts are: "NYTEST is unable to detect the OBD II connection."

Allow for the selection options: "Retry the OBD connection?" or "End the OBD II test?"

If "Retry the OBD connection?" is selected, then display:

1. Shut off the vehicle and leave the ignition switch in the "off" position,
2. Remove the NYTEST OBD connector completely from the vehicle's diagnostic link connector,
3. Wait 30 seconds (a timed 30-second delay must be part of the NYTEST OBD II test),
4. Re-insert the OBD connector.

NYTEST will allow the inspector an unlimited number of re-try attempts.

If the inspector selects "End the OBD II test," another prompt will ask the inspector to confirm that the test will be ended and to inform the inspector that the vehicle will fail the OBD II test. In response to the second prompt confirming to end the test, the inspector will be required to select a reason from the Diagnostic Communication Failure Link Screen.

## Diagnostic Communication Link Failure Screen

Available selections are:

1. NYTEST OBD connector broken or missing.
2. Vehicle diagnostic link connector (DLC) broken or missing.
3. NYTEST OBD connector and vehicle diagnostic link connector (DLC) are physically intact, but still unable to establish communications between analyzer and the vehicle.

The inspector selects choice 1, "NYTEST OBD connector broken or missing," print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," the On-Board Diagnostic Inspection Result as "Fail," and note the reason (line 19) as selected by inspector. The inspection fee will be for the "Safety Inspection" only and printed on the OBD Inspection Rejection Notice.

The inspector selects choice 2, "Vehicle diagnostic link connector (DLC) broken or missing," print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," the On-Board Diagnostic Inspection Result as "Fail," and note the reason (line 19) as selected by inspector. The full emission and safety inspection fee can be charged and printed on the OBD Inspection Rejection Report.

The inspector selects choice 3 (Under Section A.), "NYTEST OBD connector and vehicle diagnostic link connector (DLC) are physically intact, but still unable to establish communications between analyzer and the vehicle," print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," the On-Board Diagnostic Inspection Result as "Fail," and note the reason (line 19) as selected by inspector. The full emission and safety inspection fee can be charged and printed on the OBD Inspection Rejection Report.

Under Section A, the INSPREC.DAT file will be filled as follows: emission test type (position #104) as B, OBD Check Result (position #208) as F, and OBD system voltage (positions #232-#233) filled with the actual voltage measured from the last unsuccessful communication attempt rounded to the nearest whole number.

### Section B – OBD System Voltage Greater than 8.0 Volts

NOTE: Do not display the voltage measurement or make ANY reference that voltage is being measured to the inspector at any time. If the unit is unable to communicate and the voltage check at PIN 16 is above 8.0 volts, NYTEST will prompt the inspector: "Do you wish to retry the OBD connection?"

If the inspector answers "YES," return to the prompt to "Retry the OBD Connection" routine under Section A. above. Again, allowing the inspector an unlimited number of re-try attempts.

If the response is "No," display the following message (including the bold font portion) "This vehicle is subject to an OBD II inspection, but communication could not be established. **PERFORMING ANY OTHER TYPE OF EMISSION INSPECTION WILL RESULT IN AN AUDIT BY THE STATE.**" The inspector is then offered the selection prompts: "Proceed with a transient test" or "Fail the vehicle for OBD non-communication."

If the answer is "Fail the vehicle for OBD non-communication," the Diagnostic Communication Link Failure Screen would appear and the inspector must make a selection. Print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete" and the OBD Inspection Result - Overall as "Fail" with the reason (line 19) selected by the inspector. The inspection fee will be for the "Safety Inspection" only and printed on the OBD Inspection Rejection Notice. The INSPREC.DAT file will be filled as follows: emission test type (position #104) as B, OBD Check Result (position #208) as F, and OBD system voltage (positions # 232-233) filled with the voltage measurement from the last unsuccessful communication attempt rounded to the nearest whole number. The reason for non-communication, as selected by the inspector, will be recorded within the applicable HEX field.

Or

If the answer is "Proceed with a transient test," the inspector will be requested to select one of the reasons from the Diagnostic Communication Link Failure Screen. The INSPREC.DAT and OBD Inspection Rejection Notice requirements resulting from the selection of Choices #1 or #2 remain the same as in Section A above. Choice #3 under Section B differs from Section A. For all choices, the voltage measurement from the last unsuccessful communication attempt will be rounded to the nearest whole number and reported under positions #232-#233 of the INSPREC.DAT file (Section IV).

The inspector selects choice 3 (Under Section B.), "NYTEST OBD connector and vehicle diagnostic link connector (DLC) are physically intact, but still unable to establish communications between the analyzer and the vehicle," the OBD Inspection Rejection Notice (when applicable) will note the On-Board Diagnostic Communication Result as "Not Complete" with choice #3 as the reason selected by the inspector (line 19). The On-Board Diagnostic Inspection Result - Overall will depend upon the previously completed MIL checks.

If applicable, NYTEST will complete the confirmatory re-testing of the KO/EO and/or KO/ER visual MIL checks. If the vehicle fails for EITHER or BOTH of the two visual MIL illumination checks, print the OBD Inspection Rejection Notice with the OBD Inspection Result - Overall as "Fail" listing the MIL finding(s) as the reason(s). The INSPREC.DAT file will be filled as follows: emission test type (position #104) as B, OBD Check Result (position #208) as F, and OBD system voltage (positions #232-#233) as recorded by NYTEST. The reason for non-communication, as selected by the inspector, will be recorded within the applicable HEX field. The full emission and safety inspection fee can be charged and printed on the OBD II Inspection Rejection Report.

If the vehicle passes BOTH of the previously completed visual MIL evaluations criteria, NYTEST will allow for the completion of an alternate test. Note that the inspector must be certified to perform a transient and/or idle test. Display the message: "This Vehicle will now receive a Transient Test. Is the vehicle equipped with Traction Control or All Wheel Drive?"

If the answer is Yes, display the question: "Can the vehicle's Traction Control or All Wheel Drive be disabled Yes/No?" If the inspector selects "Yes, the traction control or full time all wheel drive CAN be disabled," display the appropriate screen prompts for conducting the transient test.

If the vehicle passes the transient test, mark the INSPREC.DAT position #104 as transient test (D), position #106 as appropriate, position #208 as a stopped OBD II test (S), and all other appropriate entries. The portions of the OBD II inspection that were completed will be reflected in bits #1, #2, #3, and #4 of the RN\_HEX file and bit #12 of the SUPPORTED\_HEX file. The NYTEST software will default the remaining monitor support and readiness bits within the HEX fields as "Supported" and "Ready." Print or assign the appropriate inspection sticker, and print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," Choice #3 (as selected by the inspector) noted as the reason for non-communication (line 19), and the OBD Inspection Result - Overall as "Default to Alternate Test," and the Transient Emission Test Result as "Pass" with the applicable emission readings and cutpoints. (See NYTEST Specification Section VIII for layout and definition of the OBD Inspection Rejection Report.)

If the vehicle fails the transient test, mark the INSPREC.DAT position #104 as a transient test (D), position #106 as a fail (F), position #208 as a stopped OBD II test (S), and all other appropriate entries. The portions of the OBD II inspection that were completed will be reflected in bits #1, #2, #3, and #4 of the RN\_HEX file and bit #12 of the SUPPORTED\_HEX file. The NYTEST software will

default the remaining monitor support and readiness bits within the HEX fields as "Supported" and "Ready." Print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," Choice #3 (selected by the inspector) noted as the reason for non-communication (line 19), and the OBD Inspection Result - Overall as "Default to Alternate Test," and the Transient Emission Test Result as "Fail" with the applicable emission readings and cutpoints. (See NYTEST Specification Section VIII for layout and definition of the OBD Inspection Rejection Report.)

If the inspector selects "No, the Traction Control or Full Time All Wheel Drive CANNOT be disabled," display the following message: "This vehicle will receive an Idle emission test. THIS RECORD HAS BEEN MARKED FOR AUDIT BY STATE PERSONNEL. ACTION WILL BE TAKEN AGAINST THIS FACILITY AND/OR INSPECTOR if it is found that information about this vehicle has been deliberately entered incorrectly." Select "Continue to proceed to the Idle test" or "Return to change the response to the Traction Control or Full Time All Wheel Drive information."

Selecting continue proceeds to the idle test routine

If the vehicle passes the Idle test, mark the INSPREC.DAT position #104 as Idle test (I), positions #105 and #106 as appropriate, position #208 as a stopped OBD test (S) along with all other appropriate entries. The portions of the OBD II inspection that were completed will be reflected in bits #1, #2, #3, and #4 of the RN\_HEX file and bit #12 of the SUPPORTED\_HEX file. The NYTEST software will default the remaining monitor support and readiness bits within the HEX fields as "Supported" and "Ready." Print or assign the appropriate inspection sticker, and print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," Choice #3 (selected by the inspector) noted as the reason for non-communication (line 19), and the OBD Inspection Result - Overall as "Default to Alternate Test," and the Idle Emission Test Result as "Pass" with the applicable emission readings and cutpoints. (See NYTEST Specification Section VIII for layout and definition of the OBD Inspection Rejection Report.)

Or

If the vehicle fails the Idle test, mark the INSPREC.DAT position #104 as Idle test (I), positions #105 and #106 as appropriate, position #208 as a stopped OBD test (S) along with all other appropriate entries. The portions of the OBD II inspection that were completed will be reflected in bits #1, #2, #3, and #4 of the RN\_HEX file and bit #12 of the SUPPORTED\_HEX file. The NYTEST software will default the remaining monitor support and readiness bits within the HEX fields as "Supported" and "Ready." Print the OBD Inspection Rejection Notice with the On-Board Diagnostic Communication Result as "Not Complete," Choice #3

(selected by the inspector) noted as the reason for non-communication (line 19), and the OBD Inspection Result - Overall as "Default to Alternate Test," and the Idle Emission Test Result as "Fail" with the applicable emission readings and cutpoints. (See NYTEST Specification Section VIII for layout and definition of the OBD Inspection Rejection Report.)

### Successful OBD II Communication

If OBD communication is established between the vehicle and the NYTEST system, the vehicle's on-board computer will be interrogated to determine if the MIL has been commanded on, to determine whether diagnostic trouble codes (DTCs) are present, and to retrieve the monitor support and readiness status. INSPREC.DAT positions #104 and #106 will reflect the OBD test and results.

The results of the MIL commanded-on evaluation will be stored in bit #5 of the RN\_HEX field.

Should the inspected vehicle appear to fail for either or both of the visual MIL checks ONLY, these check(s) will be repeated prior the completion of the OBD test.

If the MIL is found NOT commanded on, but the inspector previously indicated that the MIL was on during the visual KO/ER MIL evaluation, NYTEST will display the question: "With the key on and engine running, is the MIL illuminated?" If the inspector responds with "No," NYTEST will change the previous fail result of bit #4 of the RN\_HEX field to "Pass." If the inspector responds with "Yes," the previous MIL evaluation during KO/ER remains a "fail" and the OBD test sequence continues.

Should the inspected vehicle appear to fail for the Key On/Engine Off visual MIL evaluation, NYTEST will display the question: "With the key on and engine off, is the MIL illuminated?" "NOTE: The MIL may illuminate for a brief period of time on some vehicle models during this evaluation." If the inspector responds with "Yes," NYTEST will change the previous fail result of bit #3 of the RN\_HEX field to "Pass" and the vehicle will pass the OBD inspection. If the inspector responds with "No," the previous MIL evaluation during KO/EO and the OBD test result remain a "fail."

Diagnostic trouble codes (Mode \$03) will only be recorded when the MIL is commanded-on by the PCM. The description of the DTCs to be listed on the OBD Inspection Rejection Notice will conform to SAE J2012 as revised.

In developing the RN\_HEX fields (bits #6-#16), NYTEST will default the readiness status of those monitors found unsupported (as reported in the SUPPORTED\_HEX fields) to "Ready." NYTEST will evaluate the readiness small file (YYYYMMDD.RED file) that considers vehicle

model year, manufacturer, and make (see Section IV). Note that the readiness determination will be based entirely on monitor information received from the vehicle's OBD system and NOT from any default values derived to complete the HEX fields. Should the OBD inspection determine that the vehicle exceeds the allowable number of "Not Ready" indicators, the vehicle will fail the OBD II Inspection and will be recorded as such. If the vehicle fails in whole, or in part, due to the readiness small file evaluation, the OBD Inspection Rejection Notice will list ONLY the supported monitors that were recorded as "Not Ready" (see Section VIII). The OBD Inspection Rejection Notice will not print the readiness findings of ANY monitor if the vehicle passed the readiness small file portion of the inspection.

Where applicable, INSPREC.DAT positions #104-#106, #208-#233, and #383-#389 will be completed to reflect the OBD Inspection results.

### **Date and Time Recording in the INSPREC.DAT file**

When the inspector has indicated the test system is ready to perform an emission inspection, the NY-TEST unit will mark the INSPREC.DAT file with the current date and time. This will be recorded in position 27-34 for the Date and position 35-40 for the time.

If the vehicle that is being inspected is a 'SAFETY ONLY', a reinspection for a failed safety inspection, or a reinspection for a Gas Cap, the test system will record the date and time when the NY-TEST starts the inspection.

### **Vehicle Emission Test Sequences**

Low Enhanced Emission test - All gasoline powered vehicles NOT Registered in the NYMA will receive the Emission Control Device tampering check, Gas Cap Test and OBD MIL Advisory check for the Year and Make identified to the test system. The results of the low enhanced emission test will be sent to DMV. The result of the emission test will remain blank.

A vehicle that passes the low enhanced inspection will have a Low Enhanced sticker assigned to the vehicle. If the station does not have a supply of these stickers the inspector will have the option to perform the proper emission test for the vehicle or to end the test after which the test system will print a vehicle rejection notice.

**Time - Lapse Video** - During the transient, OBD II, or Idle emission test the video system will capture a video clip at a rate of 1.0 frames per second (120 hour mode), starting at the point the inspector indicates the vehicle is ready to have the emission performed and ending with the determination by the test system the vehicle has passed or failed the emission test.

The second chance transient test will include a second video series captured by the system

emission inspection.

If the inspector chooses to resume the transient emission test, the system will reset and allow the test to proceed.

If the inspector chooses to stop the test, a menu choice will be displayed and a reason selected. Those reasons are:

1. Speed excursion violation
2. Steering problem
3. Fluid Leaks
4. Mechanical Failure
5. Analyzer or equipment failure
6. Other

The selected code will be recorded in the stopped reason code field for the test phase in which the stop occurred. The results of the safety inspection, gas cap check, tampering check and OBD check will be recorded and a rejection notice will be printed.

DECTRANS.DAT - When a transient test has been stopped, the DECTRANS.DAT record will be saved up to the second the test was stopped and transmitted to the State on the next connection to the State.

OBD Test – If OBD communication cannot be achieved with an OBD applicable vehicle, the test will be recorded as “Stop” under the OBD Check Result of the INSPREC.DAT file with the reason why communication was not possible under either the RN\_HEX or SUPPORTED\_HEX fields.

### **Special Test Sequences**

There are a few vehicles subject to an emission test, which require special setup prior to the test, or may require a special test sequence.

Alternate Fueled Vehicles - If the inspector has selected a fuel type other than gasoline, that will require an emission test (i.e. CNG) the test type and limits will be guided by the DEC technical specifications.

Custom and Homemade Vehicles Up to and including when it meets the “age out” definition, the test limit used for the idle emission test will be least stringent limits for a vehicle weighing less than 8501 lbs. These vehicles will not be submitted for to the tampering inspection or the OBD check, but will be given a gas cap check.

## **Section VIII**

### **Reports Generated on Site**

The NY-TEST will generate reports used as proof of inspection or as a guide to the repairs necessary to bring the vehicle into compliance. The following reports will be printed:

1. Idle Print or Safety Only Print Description – Section VIII page 2  
Example of Idle /Safety Only Rejection Notice – Section VIII page 5
2. Transient Print Description – Section VIII page 7  
Example of Transient Rejection Notice – Section VIII page 10
3. OBD II Inspection Rejection Print Description - Section VIII page 12  
Example of OBD Rejection Notice - Section VIII page 18
4. Emission Inspection Waiver Print Description – Section VIII page 21  
Example of Emission inspection Waiver Form - Section VIII page 24
5. Emission Inspection Station Audit Form - Section VIII page 26  
Example of Audit Form - Section VIII page 28
6. Facility Setup Printout - Section VIII page 29  
Example of Facility Setup Printout - Section VIII page 32
7. Inspection Facility Daily Report - Section VIII page 33
8. Inspection Detail Report - Section VIII page 34
9. Transient Test Graph – Section VIII page 35

The OBD Inspection Rejection Notice will be printed by the NY-TEST System in the event that any single portion, or multiple portions, of the vehicle inspection (conducted for a model year 1996 and newer vehicle) fails. The Notice will also be used to provide the emission test results (pass or fail) in the event that a transient or idle test was completed due to lack of OBD communication. Separate idle or transient test rejection notices are not to be printed. The OBD Inspection Rejection Report will not be printed when a vehicle passes all components of the OBD inspection (OBD, gas cap, safety, ECD checks).

#### OBD II Inspection Rejection Print Description

Line 1, Centered

N.Y.S. Department of Motor Vehicles.

Line 2 *left blank*

Line 3, Centered

Inspection Rejection Notice – Onboard Diagnostic Test

Line 4 *left blank*

Line 5, Align Left

Vehicle Year (1 space)

Vehicle Year filled in from the inspection record (four characters)

(2 spaces)

Vehicle Make (1 space)

Vehicle Make filled in from the inspection record (five characters)

(2 spaces)

Plate Number (1 space)

Plate Number filled in from the inspection record (eight characters)

(2 spaces)

Mileage (1 space)

Mileage filled in from the inspection record (six characters).

Line 6 *left blank*

Line 7, Align Left

Vehicle Identification Number (1 space)

VIN filled in from the inspection record (seventeen characters max.).

Line 8 *left blank*

Line 9, Align Left

Inspection Station No. (1 space)

Inspection Station Number filled in from the inspection system (seven characters)

(2 spaces)

Inspector No. (1 space)

Inspector Number filled in from the inspection record (five characters)

(2 spaces)

Inspection Date (1 space)

Date filled in from the inspection record (eight characters)

(2 spaces).

Line 10 *left blank*

Line 11, Centered

Your Vehicle Failed its Annual Inspection for the Reasons Listed Below.

Line 12 *left blank*

Line 13, Align Left

Gas Cap Test Result: (1 space)

Gas Cap Test result filled in from the inspection record (4 characters (Pass, Fail, Bypass))

Line 14 *left blank*

Line 15, Align Left

Emission Control Devices Result: (1 space)

Emission Control Devices Result filled in from the inspection record (4 characters (Pass, Fail)).

Line 16, Align Left

For: (1 space)

Seven fields able to display 3 characters each, filled in from the inspection record. Each field will be followed by 2 spaces. (A vehicle that passes an ECD inspection will show these fields as blank(s))

Line 17 *left blank*

Line 18 On-Board Diagnostic Communication Result: \_\_\_\_ (Complete/Not Complete)

Line 19 Align Left (*If "Not Complete," print the one statement that corresponds to the reason selected.*)

"NYTEST OBD connector broken or missing"

"Vehicle diagnostic link connector (DLC) broken or missing"

"NYTEST OBD connector and vehicle diagnostic link connector (DLC) are physically intact, but still unable to establish communications between analyzer and the vehicle."

Line 20 *left blank, but can be used to accept the second line of the last selection from line 19*

Line 21 *left blank*

**Programming Note: The following items will use a varied number of lines to print. The space displayed on the attached example is set to show the maximum number of lines. If the list of reasons or rejection criteria occupies less space than the maximum, the report should leave a blank line then begin to print the next section.**

Line 22, Align Left

On-Board Diagnostic Inspection Result-Overall: (1 space)

\_\_\_\_\_ (Pass, Fail, Default to Alternate Test)

*If "Pass" or "Default to Alternate Test," leave a blank line and print the next applicable section.*  
(10 Spaces)

List the reason(s) depending on the cause(s) of the failure. *List consecutively without spaces between reasons.* The reasons are:

- NYTEST OBD connector broken or missing: Fail
- Vehicle Diagnostic Link Connector broken or missing: Fail
- Visual Malfunction Indicator Light at KOEO: Fail
- Visual Malfunction Indicator Light at KOER: Fail
- MIL Commanded-On and Diagnostic Trouble Codes present: Fail
- Excessive Number of "Not Complete" Monitors: Fail

Leave a blank line following the last reason

*(A maximum of 5 diagnostic trouble codes can be listed, use the number of lines necessary to print the DTCs found. If no DTCs are found, print "None" and leave the description of codes as blanks)*

Align Left

Diagnostic Trouble Codes (DTCs) found during the OBD inspection: \_\_\_\_ (None)

1. \_\_ (Description of code) \_\_
2. \_\_ (Description of code) \_\_
3. \_\_ (Description of code) \_\_
4. \_\_ (Description of code) \_\_
5. \_\_ (Description of code) \_\_

Leave a blank line following the last DTC

Align Left

Diagnostic evaluation of the following OBD monitors were found "Not Complete"  
*Up to 11 Monitors can be printed the maximum length is 24 spaces. Only print those supported monitors found Not Complete if the readiness small file evaluation causes an OBD failure. The 11 monitors are:*

- Comprehensive Components
- Misfire
- Fuel Control
- Catalytic Converter
- Oxygen Sensor(s)
- Exhaust Gas Recirculation
- Evaporative Emissions
- Catalytic Converter Heater
- Oxygen Sensor Heater
- Secondary Air Injection
- Air Conditioning

Leave a blank line following the last monitor

*Tailpipe test result area, print the results ONLY if a tailpipe test has been performed. If a transient test is performed, print the following:*

Align Left

Transient Test Result: \_\_\_\_\_ (Pass, Fail)

Next Line, Align Left

Vehicle Reading (1 space)

HC (1 space)

HC reading 4 positions Blank

gpm. (2 spaces)

CO (1 space)

CO reading 6 positions (max) Blank (1 space)

gpm. (2 spaces)

NOx (1 space)

NOx reading 4 positions (max) Blank (1 space)

gpm.

Next Line, Align Left

Test Limits (5 spaces)

HC (1 space)

HC limit 4 positions Blank (2 spaces)

gpm. (2 spaces)

CO (1 space)

CO limit 6 positions (max)Blank (1 space)

gpm. (2 spaces)

NOx (1 space)

NOx reading 4 positions (max) Blank (1 space)

gpm.

Leave a blank Line

*If an idle test is performed, print the following*

Align Left

Emission Test Result: (1 space)

Emission Test Result "PASS", "FAIL" or "STOP" determined from the results inspection record.

Next Line, Align Left

Vehicle Reading (1 space)

HC (1 space)

HC reading 4 positions filled in from the inspection record (1 space)

PPM (2 spaces)

CO (1 space)

CO reading 6 positions (max) filled in from the inspection record (1 space)

Pct. (2 spaces)

CO2 (1 space)

CO2 reading 6 positions (max) filled in from the inspection record (1 space)

Pct.

Next Line, Align Left

Test Limits (5 spaces)

HC (1 space)

HC limit 4 positions filled in from the idle test limit file (1 space)

PPM (2 spaces)

CO (1 space)

CO limit 6 positions (max) filled in from the idle test limit file (1 space)

Pct. (2 spaces)

Leave a blank line

Next Line, Align Left

Safety Inspection: (1 space)

Safety Inspection result "Pass" or "Fail" determined from the results inspection record.

Next Line, Align Left

Component: (4 spaces)

The safety inspection item(s) for which the vehicle is being rejected (47 spaces max). If there was more than one rejection reason the multiple reasons will be listed. It is possible 18-safety inspection items could be rejected in one inspection.

Leave a blank line

*(The following statement will be printed on every OBD rejection notice, but NOT when the following exceptions are encountered):*

- 1. Passing Result for a defaulted idle test (vehicle could not OBD communicate, voltage acceptable, vehicle could not be dyne tested due to AWD, TC)*
- 2. Passing Result for a defaulted NYTEST dyne test (OBD could not OBD communicate, voltage acceptable).*

*The quotation marks are not necessary.)*

“Motorist Advisory:

This rejection notice must be shown to an inspector at the time you bring the vehicle in for reinspection. Failure to present this notice or inform the inspector that the vehicle is returning for an inspection could result in your vehicle receiving a complete safety and emission inspection. This would require you to pay the FULL inspection fee.”

Leave a blank line

*This area will be used to display Emissions Warranty and other information. This area will follow the last line of the safety inspection information and will be separated by a blank line. Location of the start of the message area will depend on the number of failed safety components. Multiple messages can be printed. Leave a blank line between messages.*

Inspection Message Area:

*(The following will be printed if the vehicle model year is within 8 years of the current calendar year and the mileage is less than 80,000 miles. NOTE, however, that this message will not be printed under the following cases, or combinations of these cases (when possible):*

1. *Passing Result for a defaulted idle test (vehicle could not OBD communicate, voltage acceptable, vehicle could not be transient tested due to AWD, TC)*
2. *Passing Result for a defaulted NYTEST transient test (vehicle could not OBD communicate, voltage acceptable).*
3. *OBD failure for **ONLY** Excessive Number of "Not Complete" Monitors*
4. *OBD failure for **ONLY** NYTEST OBD connector broken or missing*
5. *Failure for Gas Cap Test **Only***
6. *Failure for Safety Inspection **Only***

"Emission Warranty Information - Your vehicle has failed its emission test. The Inspector indicated the model year is within eight (8) of the current year, and the mileage is less than 80,000. The vehicle may be eligible for emissions related warranty repairs. For more information see your owner's manual or contact your dealer."

*(The following Diagnostic Trouble Code message will be printed if the vehicle failed the OBD Inspection for "MIL Commanded -On and DTCs present")*

"Your vehicle's computer has detected a malfunction in one or more of the emission control components. The diagnostic trouble code(s) listed above is/are related to the malfunctions(s). Proper diagnosis of these codes by a qualified automotive technician is recommended to identify the exact source of any emission related problem."

*(The following message will be printed if the vehicle has failed the OBD Inspection for Excessive Number of "Not Complete" Monitors)*

"This vehicle has too many unset (Not Complete) readiness codes to be eligible for an On-Board Diagnostic (OBD) test at this time. Please return for your inspection at a later date. See your owner's manual for information on "OBD Readiness Driving Procedures" or contact your dealer for additional information."

Example of OBD Rejection Notice

N.Y.S. Department of Motor Vehicles

Inspection Rejection Notice – Onboard Diagnostic Test

Vehicle Year \_\_\_\_ Vehicle Make \_\_\_\_ Plate Number \_\_\_\_\_ Mileage \_\_\_\_\_

Vehicle Identification Number \_\_\_\_\_

Inspection Station No. \_\_\_\_\_ Inspector No. \_\_\_\_ Inspection Date \_\_\_\_\_

Your Vehicle Failed its Annual Inspection for the Reasons Listed Below.

Gas Cap Test Result: \_\_\_\_\_

Emission Control Devices Result: \_\_\_\_\_

For: \_\_\_\_\_

On-Board Diagnostic Communication Result: \_\_\_\_\_

*(A maximum of 5 reasons can be listed, use the number of lines necessary to print the reason(s) for the OBD failure)*

On-Board Diagnostic Inspection Result – Overall: \_\_\_\_\_

NYTEST OBD connector broken or missing: Fail

Vehicle Diagnostic Link Connector broken or missing: Fail

Visual Malfunction Indicator Light at KOEO: Fail

Visual Malfunction Indicator Light at KOER: Fail

MIL Commanded-On and Diagnostic Trouble Codes present: Fail

Excessive Number of “Not Complete” Monitors: Fail

*(A maximum of 5 reasons can be listed, use the number of lines necessary to print the DTCs found)*

Diagnostic Trouble Codes (DTCs) found during the OBD inspection: \_\_\_\_\_

1. \_\_ (Description of code) \_\_

2. \_\_ (Description of code) \_\_

3. \_\_ (Description of code) \_\_

4. \_\_ (Description of code) \_\_

5. \_\_ (Description of code) \_\_

*(Maximum of 11 monitors, use only the number of lines necessary to print the vehicle monitors found to be “Not Complete.” Only print if vehicle failed the readiness small file evaluation)*

Diagnostic evaluation of the following OBD monitors were found “Not Complete”



**Motorist Advisory:**

This rejection notice must be shown to an inspector at the time you bring the vehicle in for reinspection. Failure to present this notice or inform the inspector that the vehicle is returning for an inspection could result in your vehicle receiving a complete safety and emission inspection. This would require you to pay the FULL inspection fee.

**Inspection Message Area:**

# New York Vehicle Inspection Program (NYVIP)

## Specification Summary

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## **SPEC SUMMARY Software Function**

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This section describes the software function of the NYVIP for the inspection process diagrammed in section 1.3 Vehicle Inspection.

### **3-1 Facility and Inspector Access**

Enter inspector ID and  
perform system checks

#### **3-1.1 Facility License Barcode**

Each facility and inspector will have a unique number assigned to that person or entity. Both of these data elements will be a part of each inspection record. During system initialization, it will be necessary to enter the facility license and capture information on all certified inspectors authorized by the station to perform inspections. The facility license contains a 1D barcode that has the following information:

Start Code

Data Identifier - (L)

Facility Number - 7 numeric

Expiration Date - 5 Numeric (MM/YY format)

Inspection Groups - (maximum seven groups)

The number of positions filled will depend on the classification held by the station. Only those codes held by the station will be bar coded (no spaces).

Possible codes are:

1A - Light Duty Vehicles

1B - Light Duty Trailers

2A - Heavy Duty Vehicles

2B - Heavy Duty Trailers

3 - Motorcycle

I - Idle Emission; D- Transient Emission

DL - Diesel Emission (NYMA Stations with Diesel Emission Tester)

Stop Code

In some cases the expiration date will have to be manually entered as per the format MMYYYY.

#### **3-1.2 Facility Initialization**

Station initialization will also require that the modem phone number and dialing prefix be added. All other facility information (i.e., address, phone number) will be downloaded from the VID. The facility information will have to be re-entered into the NYVIP equipment whenever the station license is renewed or changed. This may be completed by the station manager, by opening the appropriate NYVIP menu and scanning the barcode from the station license, entering the modem number and dialing prefix. The application will make an inquiry call and download facility and contractor information from the VID. This information will be stored in the file YYYYMMDDHHMMFACILITY.DAT. Access will be denied to the vehicle inspection menu if the facility license has expired or the Facility Active field in YYYYMMDDHHMMFACILITY.DAT has been set to "N".

#### **3-1.3 Certified Inspector Initialization**

During system initialization, the station will also be required to enter all inspectors authorized by the station to perform inspections on their behalf. This can be entered off of the inspector's card that includes name, license number, expiration date, and types of inspections the inspector is certified to perform. This information will be stored in the file TECH.DAT. Station managers will have the ability to add and remove inspectors from the database. In order to perform OBD inspections at a facility, the certified inspectors stored

in the facilities TECH.DAT file must first pass the computer based test on OBD, defined in sections 3.14 and 4.26 Station Management Menu.

### 3-1.4 Certified Inspector Barcode

The inspector will be required to scan in his/her card prior to performing each inspection. The inspector's card contains the following 1D barcode information:

#### Certified Inspector Card

- Start Code
- Data Identifier - (T)
- Inspector Number - 5 Alpha/Numeric
- Expiration Date - 6 Numeric (MMYYYY format) [No slash between month and year]
- Inspection Groups - (maximum four positions)

The number of positions filled will depend on the levels of certification held by the inspector. Only those Inspection Group codes held by the inspector will be bar coded (no spaces).

- Possible codes are:
- 1 - Light Duty
  - 2 - Heavy Duty
  - 3 - Motorcycle
  - E - Idle emission; D- Transient emission
  - Check Character
  - Stop Code

### 3-1.5 Certified Inspector Access

Access shall be denied if the inspector's license has expired, the inspector has not successfully completed the OBD exam in NYVIP, the station is locked out, or the inspector is not allowed access per the analyzer. After the second failed attempt to enter the identification number using the scanner, a message will be returned to the inspector describing why the test has been aborted and access is denied.

### 3-2 Test Requirements

The actual type of inspection, and components thereof, will be dependent upon vehicle type (fuel type and weight class), vehicle model year, vehicle registration area and location of the inspection station. Please note that NYS exempts the first two model years from an enhanced emissions test. This obviously changes annually. For example, beginning January 1, 2004—MYs 2003 and 2004 would require a safety only test. The table below identifies the NYS testing requirements for data collection:

Vehicle	MY	Effective 1/1/2005	Safety	ECD Check	OBD Check	Gas Cap
LDT and LDV <8501 lbs, non- diesel or non- electric powered Upstate/NYMA	MY > current year - 2	Safety Only = MYs 2004, 2005	X NYVIP			
“ Upstate/NYMA	1996 and newer or 1995< MY <= current year -2	OBD Test = MYs 1996 - 2003	X NYVIP	X NYVIP	X NYVIP	X NYVIP
“	Current year-	LE Test =	X	X		X

Upstate	25 < MY < 1996	MYs1981 - 1995	NYVIP	NYVIP		NYVIP
" NYMA	Current year- 25 < MY < 1996	HE Test = MYs1981 - 1995	X NYTEST	X NYTEST	X NYTEST TAILPIPE	X NYTEST
" Upstate/NYMA	MY < current year - 25	Safety Only = MY older than 1981	X NYVIP			
LDT, HDT and LDV 8500 - 18,000 lbs, gas powered * Upstate/NYMA	MY > current year - 2	Safety Only - MYs 2004 - 2005	X NYVIP			
" Upstate	current year - 25 < MY < current year - 2	LE Test = MYs 1981 - 2003	X NYVIP	X NYVIP		X NYVIP
" NYMA	current year - 25 < MY < current year - 2	HE Test = MYs 1981 - 2003	X NYTEST	X NYTEST	X NYTEST TAILPIPE	X NYTEST
" Upstate/NYMA	MY < current year - 25	Safety Only = Model Year older than 1981	X NYVIP			
HDT >18,000 lbs Upstate	All MYs	All	X NYVIP			
HDV, HDT > 18,000 lbs. Gas powered* NYMA	MY > current year - 2	Safety Only = 2004 - 2005	X NYTEST			
" NYMA	Current year - 25 < MY < current year - 2	HE Test = MYs 1981 - 2003	X NYTEST	X NYTEST	X NYTEST TAILPIPE	X NYTEST
" NYMA	MY < current year - 25	Safety Only = Model year older than 1981	X NYTEST			
Diesel Upstate	All MYs	All	X NYVIP			
Diesel > 8500 LDV and HDV in NYMA	All MYs	Test not conducted or recorded in NYTEST or NYVIP				
Electric Upstate/NYMA	All MYs	All	X NYVIP			
Trailers Upstate/NYMA	All MYs	All	X NYVIP			
Motorcycles Upstate/NYMA	All MYs	All	X NYVIP			
Historical All Weight Codes Upstate	All MYs	All	X NYVIP			
Historical Weight Codes	All MYs	All	X NYVIP			

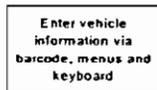
1, 2 and 3 (except those requesting HD test) NYMA						
Historical HD NYMA	All MYs	All	X NYTEST			
Custom and Homemade weight codes 1, 2 and 3 gas powered* Upstate/NYMA	MY > current year -2	Safety Only – MYs 2004 - 2005	X NYVIP			
Custom and Homemade weight codes 1, 2 and 3, gas powered* Upstate/NYMA	Current year – 25 < MY < current year - 2	MYs 1981 to 2003	X NYVIP			X NYVIP
Custom and Homemade weight code 4 gas powered* Upstate/NYMA	All MYs	All	X NYVIP			

\* Also includes CNG, Propane and Flex Fuel.

Current year refers to the current calendar year, for example on January 15, 2004; the current year would be 2004.

NOTE: During the contractual period (phased in between MY2004-MY2007), heavy-duty vehicles weighing between 8,500 and 14,000 lbs. will have OBD capability and OBD testing will be phased in. This will result in new weight designations not currently specified here. This type of change will typically be covered under the annual software update process defined in RFP section 3-6.2.

### 3-3 Vehicle Information Entry and Validation



Accuracy of the data collected by the inspection station, is critical to the success of the New York emission inspection program. New York will use barcodes in total or in combination with keyboard selection to assure the quality of the data collected. The test system will follow one of four possible data entry paths to collect sufficient information to identify the vehicle presented for inspection. The order of 'state'

preference are: scan of the 2D PDF417 barcode on the vehicle registration document (windshield sticker); scan of the 1D linear barcode (USS128B) on the registration document (windshield sticker); scan of the motor vehicle's VIN plate (if available from either the vehicle's dashboard or door jamb); or manual key entry of the vehicle description.

The VIN validation procedure described within does not apply to trailers or motorcycles. A 17-digit VIN of a model year 1981 and newer vehicle will be verified by the following;

Calculating the Check Digit, the 9<sup>th</sup> character of the entered VIN.

The last four positions must be numeric characters.

The use of I, O or Q are deemed invalid.

VINs 1973 and newer are to have a minimum of 6 characters.

VINs that do not meet the verification requirements above will be handled as described in section 4-3.2.

(Reserved for possible future update) DEC has provided a table to the Contractor regarding the determination of Gross Vehicle Weight Rating based on a 17-digit VIN for model years 1981 and newer.. SAE document 1044 provides standardized codes for determining the make of the vehicle from the VIN. This document should be incorporated along with the above rules for standard 17-digit VIN verification.

### 3-3.1 Input Device Data Capture

Entry method will be captured based on the input device used to capture vehicle information. The values to be recorded are:

- 2D Barcode Entry = 2
- Vehicle's VIN Plate Entry = 3
- Keyboard Entry of VIN = 0
- 1D Linear Barcode=1
- Non-compliant Keyboard Entry=4
- Non-compliant 1D Linear Barcode Entry=5
- Non-compliant 2D Barcode Entry=6
- Trailer VIN=7
- Motorcycle VIN=8

### 3-3.2 Non-Registered Vehicle Data Capture

A barcode will not be available for some vehicles, whereby all the required information must be key entered. In these instances, the inspector must also indicate in the Non-registered vehicle field the appropriate value as follows:

- 1=Dealer Vehicle
- 2= Unregistered Vehicle
- 3=Out of State Vehicle
- 4=Local Government/Police Vehicle
- 5=New York State Government Vehicle
- 6=Federal Government Vehicle
- 7= Barcode unable to be scanned,
- 9=Other

### 3-3.3 DMV Registration 2D Barcode – PDF417

This is NYS preferred method of VIN entry. If the inspector scans the 2D barcode on the vehicle's windshield registration all the information needed to begin the inspection will be present. The entry method indicator will be marked "2".

The 2D barcode on the New York Registration document will be produced in conformance with the March 1996, AAMVA Compliant PDF417 document.

#### AMVA Barcode Example

Bytes	Literal	Variable	Description
(Header)			
1- 1	@		Compliance Indicator

2- 2	1/f		Data Element Separator
3- 3	r/s		Record Separator
4- 4	c/r		Segment Terminator
5- 9	AAMVA		File Type
10- 14		36001	Jurisdiction Code
15- 15	0		Version Number
16- 17		05	Number of Subfiles

(Subfile Designator -- One per Subfile\_

18- 19	VH		Subfile Type (vehicle)
20- 23		0067	Offset
24- 27		0058	Length of Subfile
28- 29	RG		Subfile Type (reg.)
30- 33		0125	Offset
34- 37		0037	Length of Subfile
38- 39	ZV		Subfile Type (NY-Dev veh)
40- 43		0162	Offset
44- 47		0042	Length of Subfile
48- 49	ZR		Subfile Type (NY-Def reg)
50- 53		0204	Offset
54- 57		0015	Length of Subfile
58- 59	ZZ		Subfile Type (NY-Def ver)
60- 63		0219	Offset
64- 67		0013	Length of Subfile

(Subfile - Vehicle Record)

68- 69	VH		Start Vehicle Subfile
70- 73	1/IVAD		VIN Number Follows
74- 90		1G1JC81W71111111	
91- 94	1/IVAK		Make Follows
95- 98		CHEV	(NCIC seems to be required)
99-102	1/IVAL		Year Follows
103-104		88	
105-108	1/IVAQ		Number of Cylinders Follows
109-111		006	
112-115	1/IVAT		Weight Follows
116-124		002607 LB	
125-125	c/r		End Vehicle Subfile

(Subfile - Registration)

126-127	RG		Begin Reg. Subfile
128-131	1/IRAG		Reg. Exp. Date Follows
132-141		19990430	
142-145	1/IRAL		Plate Class Follows
146-149		PAS	
150-153	1/IRAM		Plate Number Follows
154-161		AAA100	
162-162	c/r		End Reg. Subfile

(Subfile - NYDMV - Defined Vehicle - related fields)

163-164	ZV		Begin NY Defined Veh.
165-168	1/fZVA		NY Defined Year Follows

169-172		1988	(full four digits)
173-176	1/fZVB		NY Defined Make Follows
177-181		CHEVR	(Chevrolet)
182-185	1/fZVC		NY Defined Body Follows
186-189		SUBN	(station wagon)
190-193	1/fZVD		NY Defined Fuel Follows
194-194		G	Allowable Fuels are;
			G – Gasoline
			D – Diesel
			E – Electric
			P – Propane
			C – CNG
			F – Flex
195-198	1/fZVE		NY Defined Color Follows
199-203		DK/RD	(as defined in video training
manual)			
204-204	c/r		End of NY Defined Veh.

(Subfile – NYDMV – Defined Registration – related fields)

205-206	ZR		Begin NY Defined Reg.
207-210	1/fZRA		NYMA Indicator Follows
211-211		2	(vehicle is not in NYMA)
212-215	1/fZRB		Three of the Name Follows
216-218		MOT	
219-219	c/r		End NY Defined Reg.

(Subfile – NYDMV – Defined Version Control Info.)

220-221	ZZ		Begin NY Defined V. Ctrl.
222-225	1/fZZZ		Barcode Version Follows
226-231		199706	(year and month of rev.)
232-232	c/r		End NY Defined V.Ctrl.

### 3-3.4 DMV Registration 1D Linear Barcode – USS128B

The linear barcode contains the vehicle registration plate number. It is possible to find and return the correct vehicle information on the DMV registration file using the vehicle registration plate number.

Note: The linear barcode (USS128B) on the New York vehicle registrations, have a numeric code as a descriptor for the vehicle make. Code '57' is defined as 'Other' and will not have a match on the DMV file. The NYVIP system must detect this code and require the inspector to select the correct vehicle make.

The linear barcode contains the following information:

Start Code

Data Identifier – (4)

Vehicle Year – 2 numeric

Vehicle Make – 2numeric (See section 7 for Vehicle Make Codes)

Cylinders – 1 numeric (0 = Rotary, 1-8, 9 = 9 or more cylinders)

Weight Code – 1 numeric (See section 7 for Weight Codes)

Fuel Code – 1 numeric (1 = Gas, 2 = Non Gas and 3 = None)

NYMA Code – 1 numeric (1 = NYMA and 2 = Outside NYMA)

Registration Class – 2 numeric

Plate Number – Maximum of 8 alpha/numeric characters.

The number of characters filled will depend on the number of characters in the license plate. Only those characters on the vehicle license plate will be bar coded (no spaces).

Check Character

Stop Code

### 3-3.5 Keyboard Data Entry Requirements

For vehicles where data is keyboard/keypad entered, validation and entry techniques will be required as follows:

Double Blind Entry (same information must be entered twice): VIN, odometer reading

VIN Validation: Either NYS supplied VIN indicator check or contractor provided tool.

Drop Down Menus: Year, Make, Model, Fuel type, Vehicle Weight Code

Single Key Entry: License plate

NOTE: Fuel type and odometer reading will not be required entries for trailers. Weight Code will not be a required entry for motorcycles.

The VIN entered will be validated by using the requirements under sections 3-3 and 4-3.2, (Reserved for future update) or an approved Contractor supplied VIN decoding utility or a DMV supplied VIN Indicator Check for a SAE J272 compliant VIN. Trailer and motorcycle VINs will not be subject to the above rules except for the use of I, O or Q.

### 3-3.6 Public Model Name Data Capture

The public model name is required for OBD inspections. The contractor must develop a drop down menu, which lists all public model names for the vehicle make selected. In the event the model name is not present in the reference table YYYYMMDDHHMMVEHMAKE.DAT, the inspector can enter the first 23 characters of the model name. The application should only accept alpha/numeric characters with no spaces, slashes, or asterisks etc. This table will be updated by the contractor at least twice per year. The contractor will review the manually entered model names and incorporate them into the next scheduled update of the table. Model names must be consistent from year to year in order for valid data to be retrieved.

## 3-4 Safety and ECD Entry

Enter additional vehicle info and perform safety inspection and enter results	Perform Emission Control Device Check and Gas Cap Test and enter results
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Each vehicle submitted for inspection must pass the safety inspection and emission control device (ECD) check defined for its weight class and appropriate year in Part 79 of the NYS Commissioner's Regulations. The inspection of the following items will be recorded with an indication of Pass, Fail, Not Equipped where applicable or Repaired. The ability to inspect all vehicles, including Motorcycles and Trailers, will be available to the inspection station. The ability to perform the

inspection will be based on the facility and the inspector having the appropriate certification for that type of inspection.

### 3-4.1 Safety Inspection Components

The table below lists the safety items currently required to be inspected:

<ul style="list-style-type: none"><li>▪ Tires</li><li>▪ Wheels &amp; Fasteners</li><li>▪ Steering</li><li>▪ Front end</li></ul>	<ul style="list-style-type: none"><li>▪ Mirrors</li><li>▪ Horn</li><li>▪ Coupling Devices</li><li>▪ Exhaust System</li></ul>
---	--

<ul style="list-style-type: none"> <li>▪ Suspension</li> <li>▪ Chassis/Frame</li> <li>▪ Window Glass</li> <li>▪ Windshield Wipers</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lighting and Reflectors</li> <li>▪ Service Brake System</li> <li>▪ Emergency Brake Systems</li> <li>▪ Seat Belts</li> <li>▪ Fuel Leak</li> </ul>
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Additional detail including items per type of inspection (e.g. OBD, Safety Only, etc.) can be found in DMV's regulations, available online at [www.nysdmv.com/repairshop.htm](http://www.nysdmv.com/repairshop.htm). Field references to store the safety inspection results can be found in section 5 under INSPREC.DAT. Data elements are stored in fields named "Field 1" through "Field 18" depending upon the type of vehicle being presented for inspection. See section 7 for additional information on elements to be stored in fields 1 through 18. The system will provide the inspector with context sensitive help for each safety and ECD device check entry.

### 3-4.2 DMV Weight Classifications for Safety Inspections

The NYVIP will follow a similar sequence of safety inspection items for each class of vehicle to facilitate user friendliness. The weight classifications used in safety inspection regulations are classified into the following 4 weight code categories (excluding motorcycles and trailers) See Part 79 for safety items that apply to each weight class:

**Light Duty Vehicles** - All vehicles with a DMV recorded vehicle weight under 10,001 pounds. Weight code 1 is for vehicles and light duty trucks weighing less than 8501 lbs. and weight code 2 is for vehicles and trucks weighing 8501 lbs. up to 10,000 lbs.

**Medium Duty Vehicles** - Additional requirements for trucks with DMV recorded vehicle weights over 10,000 pounds up to 18,000 pounds (DMV weight code 3), but not including those trucks for which the registrant requests the inspection station to perform a 'heavy vehicle inspection'. All of the items in the light duty will apply.

**Heavy Vehicle Inspection** - Safety inspection requirements for all trucks and trailers with DMV recorded vehicle weights over 18,000 pounds (DMV weight code 4) and passenger vehicles with a seating capacity of more than 15 passengers. See Part 79 of the NYS Commissioner's regulations for specific safety items required for a heavy vehicle inspection.

**Motorcycle Inspections** - Safety inspection requirements for all motorcycles will come under weight code "0". See Part 79 of the Commissioner's regulations for specific safety items required for a motorcycle inspection.

### 3-4.3 Emissions Control Device and Gas Cap Check

The NYVIP will follow a similar sequence of emission control device and gas cap checks to facilitate user friendliness. The components checked during the inspection will depend upon the weight and model year of the vehicle and will involve factory installed emissions components. Field references to store the ECD and gas cap check results are abbreviated names based on the device (e.g. PCV, CAT, IR, EGR, TAC, AIS, EVAP and Gas Cap check) and are stored in INSPREC.DAT.

### 3-5 OBD Inspection Entry

Begin OBD Test Sequences

The NYVIP will include all the hardware and software necessary to access the onboard computer systems on 1996 and newer light duty vehicles, determine OBDII readiness, MIL command status, vehicle information, and recover stored diagnostic trouble codes using the SAE standardized link. The analyzer shall be designed to guide the inspector through the proper OBDII, safety, gas cap check and ECD inspection sequences for a particular vehicle, and record the results. The inspector shall be presented a list of vehicle components to be inspected, in the following order: safety components, emission control device components, gas cap check and OBDII scan test sequence.

Should a communication failure occur between the vehicle's Diagnostic Link Connector and the OBDII analyzer, the OBDII analyzer will require the inspector to attempt to re-establish a connection at least three times and capture the voltage recorded on pin 16. References for DLC locations will be displayed, upon

request by the inspector, via a separate file maintained on the analyzer (YYYYMMDDHHMMDLCREP.DAT). Information regarding OBDII test anomalies (i.e. Canadian Cars, brief MIL illumination during KOEO) will be maintained in the OBD Exception Table (YYYYMMDDHHMMEXC.DAT) to assist the inspector during data input. Criteria to evaluate OBD test results related to monitor readiness will be maintained in the Readiness Table (YYYYMMDDHHMMRED.DAT). The analyzer software shall be designed to invoke the requirements of 40 CFR51, except as noted in this Specification.

Prior to conducting an OBD test at the NYVIP facility, inspectors will be required to take and pass an OBD computer based test. A computer based training module and the OBD exam will be on the OBD Computer Based Training and Testing Menu. Both the exam and the training are described in Section 4.6.7.

### **3-6 Blind Test**

The NYVIP shall not allow any escape or reset to interrupt a test in progress. Once a vehicle inspection has begun, no results are to be displayed until after the test record is written to disk, and a final pass/fail determination has been made.

### **3-7 Data Storage and Data Recall Capability**

In the event that no communication can be made with the VID after two attempts, or a no-match is received from the VID after successful communication, the analyzer shall have the capability to recall and display any of the failed vehicle test records in INSPREC.DAT or INSPHIST.DAT for retest, so long as the initial inspection occurred within the last 30 days. Recall shall be initiated by searching INSPREC.DAT and INSPHIST.DAT for records with matching vehicle identification number.

If located, the previous test record will be automatically retrieved without inspector intervention. The inspector shall not have the ability to modify the vehicle identification information (year, VIN, make) on the recalled test record. The inspector shall be required to reenter the odometer for subsequent tests. The analyzer shall be capable of displaying the previous test results, but shall not allow them to be changed. The test record for this vehicle shall indicate that it was retested.

In the event the motorist had the initial test performed at another station and no communication can be made with the VID after two attempts, the bar codes contained on the original receipt can be scanned in by the operator and treated as a retest, so long as the initial inspection occurred within the last 30 days. The inspector shall not have the ability to modify the vehicle identification information (year, VIN, make) on the record. The inspector shall be required to reenter the odometer for subsequent tests. The analyzer shall be capable of displaying the previous test results, but shall not allow them to be changed.

### **3-8 Double Blind Entry**

Double-blind entry is required for key entered VINs and odometer readings and is defined as follows:

1. The inspector shall enter the value on the screen and when data entry is completed press the <ENTER> key to continue.
2. Values entered may be viewed as the characters are entered.
3. The analyzer shall blank the field and require the inspector to enter the value again without the benefit of seeing the first entry.
4. At the completion of the second data entry the inspector shall again press the <ENTER> key to indicate that the process has been completed.
5. If the two values do not match then the process must begin again.
6. The inspector shall be required to enter exactly the same value twice in a row before the process can continue.
7. The VIN will be decoded and validated against the inspector entered VIN. The system will need to account for non-conforming VINs including state assigned VINs, custom and homemade car kits and some foreign vehicles (i.e. VIN is all numbers). If the VIN is identified as a non standard VIN, the inspector will be notified with the appropriate error message and a warning that the inspection will be flagged for DMV audit. No vehicle, trailer or motorcycle will be prevented from receiving

an inspection for having a VIN that does not conform to the validation process in sections 3-3 and 4-3.2.

### **3-9 State Audit Menu**

State access will be obtained through the use of a bar-coded ID. The system will prompt the state representative to scan the barcode on the State Inspector ID card. After the ID has been scanned, the system will display a series of menu choices intended for use by the state during the audit of the facility. Each sub-menu choice will be able to be viewed on the system monitor and will be able to be printed by the system report printer. When a State Representative scans the ID Barcode, the test system will record the ID number, the date of the audit, and the time of the audit. The NYVIP will give the state representative the option to view all the files and tables contained on that stations NYVIP, download data and print reports. For more information on software function, see section 4. For more information on reports, see section 6.

### **3-10 State Messaging**

The State intends to use the NYVIP communication system to disseminate messages to the inspection stations. This will be in addition to the website which will contain all messages sent by the State to the inspection stations. Each message will be a file of its' own and will have its own file name.

#### **3-10.1 Message Naming and Sizing**

The information messages will be HTML documents of up to 6 pages. The station will have the ability to print the documents. Messages may be sent to selected stations or the entire network depending on content. If the distribution is to selected stations, NYS will supply a list of stations that a message is to be sent to. If NYS supplies a text document, the contractor may be required to format the message in HTML. NYS does not anticipate generating more than one message per station per day. Each message will be assigned an 8-position name plus a file name extension. The file name structure will be the 4-position year (YYYY), 2 position month (MM), 2 position day (DD), and the file extension HTM or HTML or TXT. In the event of an individual, real time station message (as defined in note below) we will need to expand the file name to include date plus station plus time.

For example: a message sent the first day of 2004 would be 20040101 HTM or HTML or TXT

Note: NYS anticipates that future software releases will support real time electronic messaging between the Regional Offices of DMV and the Station's NYVIP unit via the contractor. This messaging will allow DMV Staff to have selected station (s) perform a specific action during an inspection (e.g. take image of reg. sticker, rev engine, repeat KOER test, etc.).

#### **3-10.2 Message Update Check**

During the system check, the system will compare the last system-wide DMV message number downloaded to the NYVIP. If the message number in the test system is the same as the number being downloaded by the contractor, the NY-VIP will not expect to receive any new messages. If message number in the test system, is less than the number presently downloaded by the contractor, the system will accept any message still being distributed by the contractor. Once the messages have been downloaded, the software version process will be updated and no messages will be expected until DMV distributes a new one. If the NYVIP system is missing more than the number downloaded by the contractor, the system will accept the available messages and update the version number check to the current number.

The contractor will be required to distribute only the last five (5) messages published by the State. If a test system has not been in operation for a period of time longer than that time frame (e.g. 6 months) the test system will only receive the messages presently being distributed by the contractor. The test system does not need to advise the inspector that any messages are omitted. However, it should contain screen directions that all Station messages are available for display on the Contractor's website.

### **3-10.3 Station Message Receipt and Display**

When the NYVIP equipment receives a new message, the system will not immediately require the inspector to read the message. At the conclusion of an on-going inspection the NYVIP system will display a "new message" flag to the inspector that a new message has been received. Where possible, the system should identify that a new message is waiting to be viewed by a "new message" flag on the main menu option. The system will retain the last 5 messages, at a minimum, and will be able to view and print them as needed.

Note: Messaging capability should be expanded in the future to have the ability to read/respond to a system message (during a live inspection) will be required.

### **3-11 System Lockouts/Data Refresh**

The status (on/off) of the lockouts shall be transmitted by the VID to the analyzer. If a lockout(s) is set, then all subsequent inspections shall be prohibited until the applicable lockout(s) has been cleared. Lockouts received from the VID during the inquiry call will stop the current inspection. Lockouts received from the VID during the record transmission call will stop future inspections. Lockouts can occur on stations and individual inspectors if their current license is suspended, expired or revoked.

#### **3-11.1 System Lockout Conditions**

The following are the circumstances where the NYVIP should not allow the inspection to occur until the condition causing the lockout has been corrected.

##### **3-11.1.1 Expired inspection facility license –**

If the facility business license expires and the renewed license has not been scanned into the NYVIP, inspections will not be permitted. The system will prompt the inspector / operator to take the recently received business license certificate and scan the barcode, into the system.

##### **3-11.1.2 Inspection Certificate inventory is empty –**

If the facility has not entered stickers into the NYVIP and/or the system has used all of the recorded certificates, the system will not permit inspections to occur until the supply of certificates has been replenished. Scanning the barcode of the sticker during loading of the inspection certificates into inventory will clear this 'lockout' condition. This lockout should not prevent a station with no, stickers entered into inventory from selecting Out of Business and closing out their inspection license.

##### **3-11.1.3 Inspector Certification Expired –**

If the inspector's certification has expired, the NYVIP will not allow access to the inspection option by that inspector only. This will not be cleared until the new (un-expired) card has been entered; assuming permission to perform inspections has been granted by the station owner.

##### **3-11.1.4 Connection to the Contractor –**

If the NYVIP cannot make a connection to the contractor, offline inspections will not be permitted to continue indefinitely. The initial defaults, set in YYYYMMDDHHMMFACILITY.DAT will be set to 25 records in INSPREC.DAT or two weeks from last transmission, whichever occurs first. The NYVIP will display a message to inform the inspector a connection MUST be made and instructions on how to check the phone connection. If communication with the VID cannot be established during an inspection, the NYVIP will allow the current inspection to be completed, but will keep track of the number of inspections performed in an offline mode.

If a lockout is set because the maximum number of offline tests has been exceeded, the analyzer must make contact with the contractor and upload all stored records in INSPREC.DAT. Upon successful transmission, this lockout can be cleared. The analyzers will lockout from all inspection testing if the maximum number of offline inspections has been performed. The software will count the number of offline tests; and if the maximum number of offline tests has not been exceeded the software will allow

new emissions inspections. If this lockout is set by exceeding the offline test number, the analyzer must make contact with the VID and upload all stored records, indicated by successful completion of the communications session or via a secondary magnetic or digital storage device download in the event a communications session cannot be established.

#### **3-11.1.5 Facility Suspension and Revocation Stops –**

The NYVIP will be stopped from performing inspections if the inspection station is under a suspension or revocation. The Facility Active Indicator in the facility license file will be set to suspended or revoked, which will prevent inspection activity until the stop has been removed through the data refresh function.

#### **3-11.1.6 Inspector Suspension -**

The NYVIP will stop inspectors whose license has been suspended from performing all inspections if the inspector is under a suspension or revocation. The Inspector Active Indicator in the technician file (YYYMMDDTECH.DAT) will be set to suspended or revoked, which will prevent inspection activity by this inspector until the stop has been removed through the data refresh function.

#### **3-11.1.7 System Ready Checks Suspension–**

The NYVIP will be stopped from performing inspections if the unit fails System Ready checks for the Bar Code Reader, Scan Tool, Scan Tool Connection, Floppy Disk and or Floppy Drive. The application should provide the inspector with directions to follow to try and correct the problem. If the problem is corrected by the inspector's actions and all System Ready Checks are indicated as Passed then the NYVIP should allow inspections to be performed. If the inspector cannot correct the problem the unit will remain locked out until the proper repair is performed and the System Ready Checks all pass. The exception being the Scan Tool check that cannot be performed until it is connected to the vehicle, at which time if it fails it will lock out the unit.

#### **3-11.1.8 NYVIP Connector Suspension–**

If during an inspection the inspector chooses non-communication reason #1 NYVIP Connector Broken or Missing, the analyzer should allow the completion of the inspection and then lock out any future inspections until the unit has been properly repaired and the lock out is cleared.

(Reserved for future update) The contractor will facilitate release of the system ready lockout through the Help Desk function after corrective action (e.g. replacement part, receipt and installation) when appropriate (e.g. code entry).

#### **3-11.1.9 Software Version Lockout**

Once a software change or update is approved by DMV/DEC it is required to be loaded into the NYVIP units by downloading from the VID or by CD within 45 days. If a NYVIP has not been updated within the 45-day period with the new version it should be locked out until the unit has been updated with the approved software version.

#### **3-11.2 Data Refresh Function**

The Data Refresh function will serve a combination of desired tasks. When the operator selects this function the following tasks will be performed.

##### **3-11.2.1 Suspension/Revocation Release -**

This function will allow a suspended or revoked inspection station to call the contractor to obtain a release from a suspension or a revocation. The NYVIP inspector will connect to the contractor and the vehicle safety file (facility and/or certified inspector files) will be checked to see if the source of the stop

has been released. If the stop has been released a line message will be sent by DMV to permit the Inspection Stop Indicator to be changed to active status.

### 3-11.2.2 Download Offline Data –

This function will allow an inspection station to connect to the contractor and transfer the accumulated inspection data. Once the data has been successfully transferred, the restriction preventing additional offline inspections will be changed from "Stop" to "OK" in the event the maximum number of offline transactions or days have been exceeded. In the event that records are stored on the medium and a hardware failure, causes the replacement of the unit's hard drive, after repair the records will be transmitted to NYS during re-initialization.

### 3-11.2.3 File Version Update –

A menu selection must be available to allow the test system to connect to the contractor to obtain the file update. If during an inspection inquiry the test system has been identified as needing to have a look-up table updated, the system operator will be instructed to select the Data Refresh Menu choice. When the test system connects to the contractor, the file versions will be updated, and the file version deficiency will be corrected. This will release the file version stop put in place. The file version files impacted by this stop will be those that are prefixed with YYYYMMDDHHMM.

When the station manager or authorized person selects data refresh, the NYVIP will connect to the contractor. *This process can occur even if the test system has a State imposed stop in place.* Once the connection has been established the test system will send a search request (SEARCH.DAT). The vehicle description fields and the inspector identification number will be blank. The contractor will accept this call, collect the offline data (if any), check the test system file version numbers, and check the DMV files.

The contractor will return the VEHINFO.DAT with the vehicle information and inspection fields blank, the record match field will contain "N". If the DMV stop has been removed, the contractor will return a blank for the "Facility Active" or "Inspector Active" field. If the stop has not been removed the contractor will again return the "S" (stop) to the "Facility Active" or "Inspector Active" field.

## 3-12 System Access Logging

All communication calls from the NYVIP analyzer will be logged, and the logs will include the user identified during the call (station, contractor or State), the function performed during the call ( inspection, get data, data refresh, etc), system time and date and whether it was successful. For those entries by password it will be required that the individual accessing the unit enter their initials. This log data will be stored in ACESLOG.DAT These will be retrievable from the State and Contractor menus by selecting a specific date range. See section 5 for a file layout and see section 6 for sample report output.

## 3-13 Table Updates

It is anticipated that tables will require periodic update, as new information is available. Tables that will require transmission are considered small files (\*) and also include those with the prefix YYYYMMDDHHMM in the file name. Small files are further defined in sections 4-3, 4-3.3.C(6) and 7-4. The updates will be transmitted during the inquiry call, of an OBD inspection or low enhanced emissions test or during record transmission for all other inspections. Files meeting these criteria include:

- (\*) YYYYMMDDHHMMFEE.DAT (current inspection fees)
- (\*) YYYYMMDDHHMMWAV.DAT (current waiver limits)
- YYYYMMDDHHMMMSG.DAT (current pending system messages)
- (\*) YYYYMMDDHHMMEXC.DAT (OBD exceptions)
- YYYYMMDDHHMMDLREF.DAT (DLC location reference/issues)
- YYYYMMDDHHMMFACILITY.DAT (facility stops/offline limits)
- YYYYMMDDHHMMRECALL.DAT (vehicle recall data)

- (\*) YYYYMMDDHHMMRED.DAT (readiness test evaluation criteria)
- YYYYMMDDHHMMSTICKER.DAT (sticker inventory confirmation)
- YYYYMMDDHHMMTECH.DAT (inspector stops)
- (\*) YYYYMMDDHHMMVEHMAKE.DAT (bar code decoding)
- (\*) YYYYMMDDHHMMVEHWGHT.DAT (determine vehicle weight code)
- YYYYMMDDHHMMSTICKORD.DAT (stickers available to load)
- (\*) YYYYMMDDHHMMADV.DAT (messages for vehicle exceptions)

The contractor will download updates to these files to the station analyzers within 3 days from receipt of request by NYS. In some cases (e.g. facility stops), the table updates will be immediate.

### **3-14 Station Management Menu**

The station management menu will give the station owner the ability to initialize, update or close out his/her facility license on the analyzer, add authorized inspectors, add inspection stickers to inventory and generate performance reports which look at inspection volume, retest and repair rates, etc. For more information on software options, see section 4. For more information on performance report options, see section 6.

### **3-15 Print Preview Capability**

The NYVIP shall have a print preview feature, which permits the preview of reports before printing. Print output will be directed to the printer. The print output function shall not be enabled during the emissions inspection process and Computer Based Testing.

### **3-16 Help Messages**

This section defines the minimum required help messages that will help guide the inspector through the operation of the NYVIP. The messages and an accompanying description are to be included in the NYVIP design. The contractor does not need to limit the messages to the ones found in this section. Wherever possible the message will be able to be displayed at the point the analyzer function is occurring, and a general help system should be able to display the help messages.

#### **3-16.1 General Help -**

- Contractor Hotline phone number at (888)4NYVIPS.
- Vehicle Safety Services phone numbers are listed in the Inspection Regulation procedures.
- Inspection procedure questions call Vehicle Safety Services Technical Services Bureau at (518) 474-5282.
- Inspection station license information call Vehicle Safety Services Application Processing Unit at (518) 474-0919.
- Inspection sticker information call Vehicle Safety Services Issuance Unit at (518) 474-2398.
- Inspector certification questions call Inspector Certification Unit at (518) 474- 7998.

#### **3-16.2 Barcode Scanner -**

The barcode reader should be pointed at the barcode to be read then pull the scanner trigger to activate.

#### **3-16.3 System Ready Checks -**

- Inspection Station License is expired. You must scan the barcode on the license you recently received from the State.
- The inspection system is out of inspection stickers. More stickers must be loaded before the inspection can continue.
- A diagnostic scan of the bar code reader indicated a problem. Please check connections. If this does not work, contact the contractor for assistance.
- A diagnostic self-check of the Scan Tool has indicated a problem. Please check connections. If this does not work, contact the contractor for assistance.
- A diagnostic self-check of the telephone modem has indicated a problem. Please check the phone

line connections. If this does not work, contact your contractor for assistance.

- A diagnostic self-check of the Floppy Disk/Drive has indicated a problem. Contact the contractor for assistance.

### **3-16.4 Facility Business License -**

- To update a facility business license the barcode printed on the wall certificate must be scanned into the system memory.
- Note: Beginning 30 days prior to the expiration of the current business license, the NYVIP system will display a message stating; "The current business license will expire at the end of the current month. You must renew your license with DMV, and when the renewed license is received you must scan the barcode printed on the new wall certificate into the system memory."
- The wall certificate just scanned is already stored in the system memory.
- The wall certificate just scanned is not for the business facility number presently in the system memory.
- Your Business License has been updated.
- The Barcode just scanned is not from an inspection station wall certificate.

### **3-16.5 Inspector ID Card -**

- Inspector Certification Card VS-26 is the bar-coded card sent to all inspectors with a current certification. This card must be scanned in order to begin an emission inspection.
- Inspector Certification card is expired. A card with a valid expiration date must be scanned to begin an emission inspection.
- Inspector Certification card is suspended. Contact the Inspector Certification Unit at (518) 474-1510.
- Inspector must successfully complete the Computer Based OBDII Certification test on the NYVIP before an OBD Inspection can be performed.

### **3-16.6 Connection to the Contractor**

- Performing Network Access – The analyzer is contacting the VID and transferring data.
- Connection is Busy - The analyzer attempted to connect to the contractor but was unable to get an open line. The contractor may be busy or the phone line in the inspection station may be in use by someone, try again.
- No dial tone is detected - The phone cord may not be connected to the analyzer. Check the cord connections.
- Voice Detected - The phone line may be in use by someone or the telephone system operator may be breaking into the call.
- Contractor does not answer - The contractor may be unable to take a call at this time. You should try again in a few minutes or call the Contractor "Help Desk".
- Updating NYVIP Files - The contractor is sending files to correct or update system files.

### **3-16.7 Vehicle Record Information -**

- Registration Record Found - This message should be displayed when data is returned by DMV through the contractor.
- Registration Record Not Found - This message should be displayed when data is not returned by DMV through the contractor.
- Vehicle Requires a Full Inspection or Scan of Customer Provided Receipt barcode. This message should be displayed when the inspection information returned by DMV through the contractor is more than 30 days old.
- Vehicle Requires a Re-inspection - This message should be displayed when the inspection information returned by DMV through the contractor indicates this vehicle failed one or more portions of an inspection within the previous 30 days.

### **3-16.8 Safety Inspection Criteria –**

As the inspector proceeds through the safety inspection process defined in section 4-3.4, the appropriate inspection criteria should be displayed in a pop-up screen. This can be built from the DMV Commissioner's regulations, Part 79. These help screens should be updated annually or as needed.

The Inspector should be able to view the safety inspection criteria as a HELP type option without the necessity to perform a safety inspection.

## 1.1. OBDII Test

1. Verify that the vehicle's ignition is turned off for 30 seconds before proceeding. This screen displays a 30 second countdown timer. When 30 seconds has elapsed, the screen will change indicating 'Press Enter to Continue'.

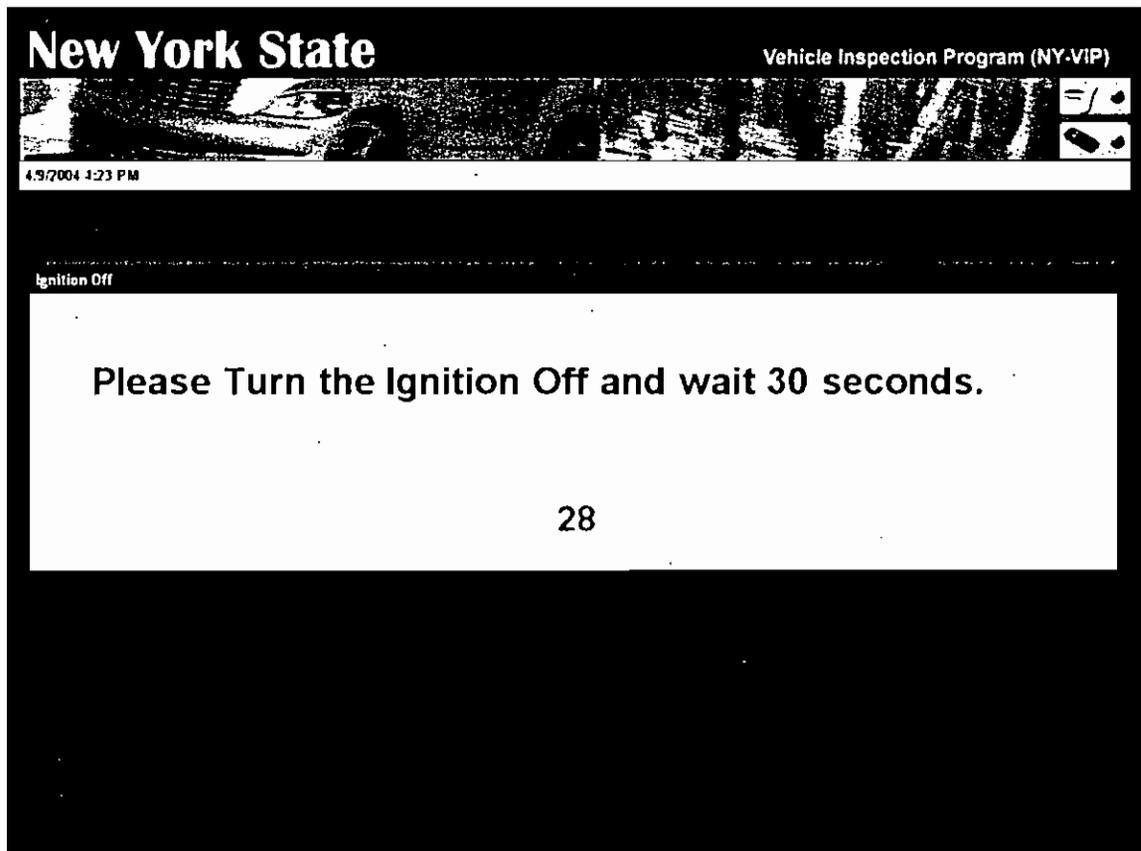


Figure 4-54 Turn Ignition Off

**NOTE:** Certain vehicles may have procedures for connecting and retrieving OBDII information that are specific to that vehicle. These vehicles are listed as "Exceptions". Instructions for these vehicles may be displayed.

2. Locate the vehicle's OBD II Diagnostic Link Connector (DLC) and connect the NYVIP Connector. Press '1' to display a graphic of the location of the DLC for this vehicle. If the DLC cannot be located, proceed with the inspection. When the screen appears asking why there was a communication failure, (Refer to Fig. 4-63) select (5) Unable to find vehicles Diagnostic Link Connector.

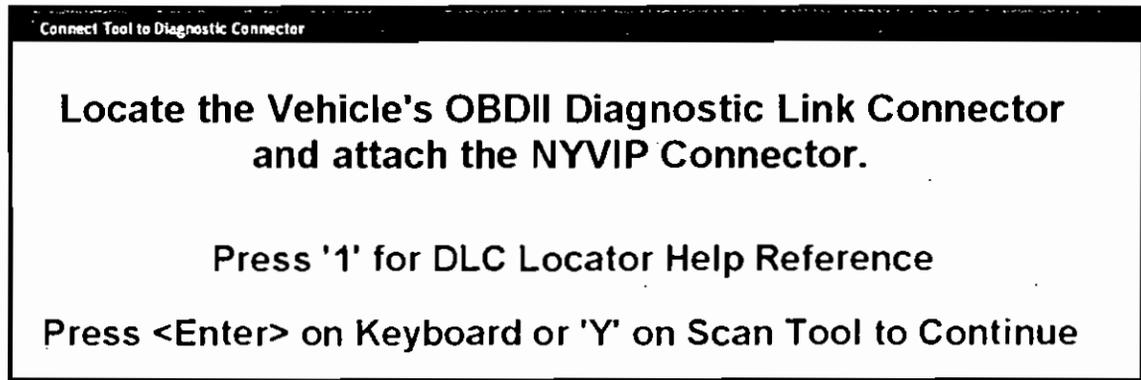


Figure 4-55 Locate Vehicle's OBDII DLC

3. This example illustrates the DCL location for the Make, Model and Year of the vehicle selected.

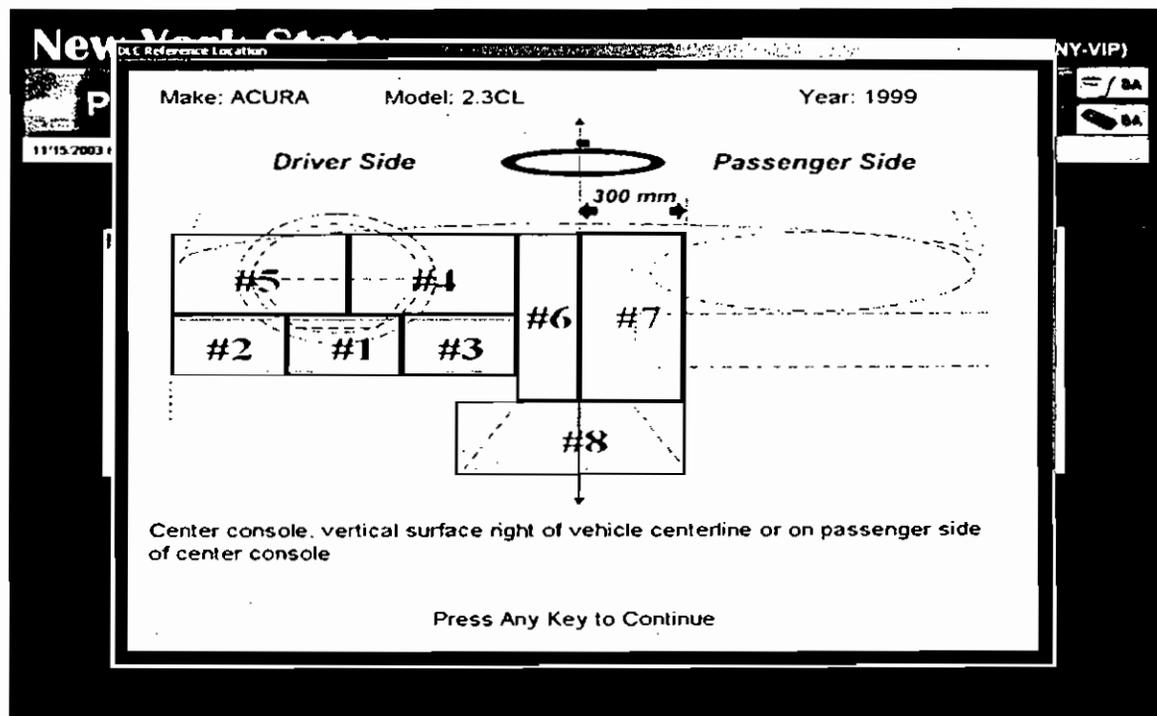


Figure 4-56 Sample DLC Location Illustration

4. When the "Key On, Engine Off" (KOEO) screen is displayed, turn the ignition On. Press 'Y' if the Malfunction Indicator Light (MIL) turns on.

**Note:** Certain vehicles will illuminate the MIL when the key is turned on and then the light will go out. If the MIL does not illuminate, select (N)o. If (N)o is selected, a confirmation message will be displayed.

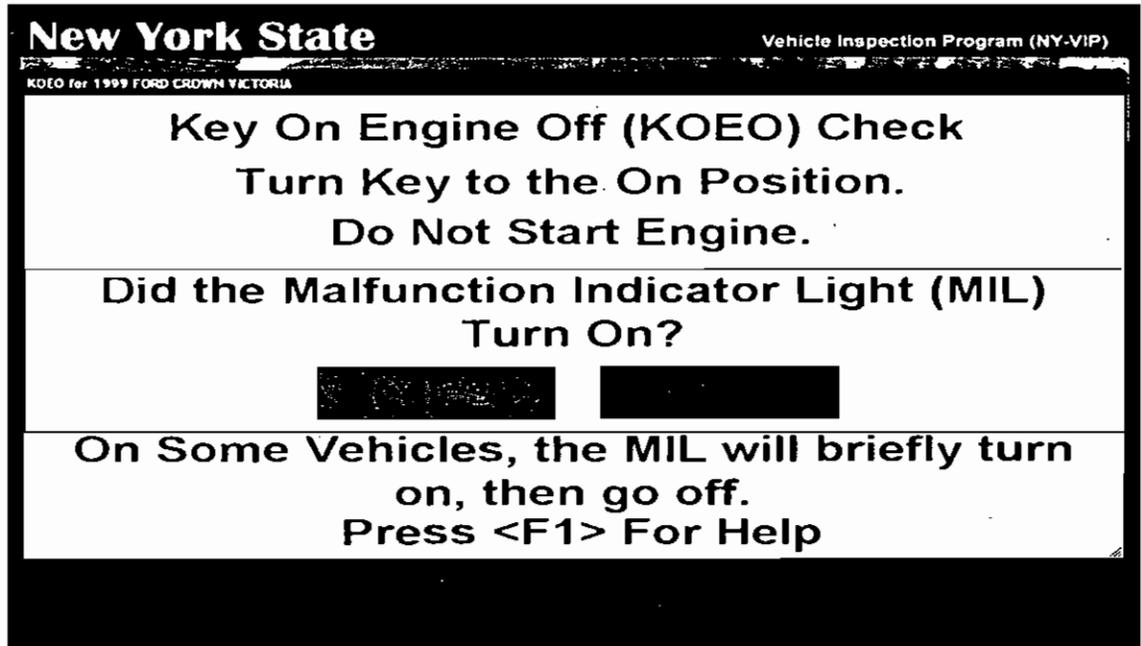


Figure 4-57 KOEO MIL Check

5. Pressing the 'F1' key on the keyboard will display the Help screen below. Press 'Enter' to continue.

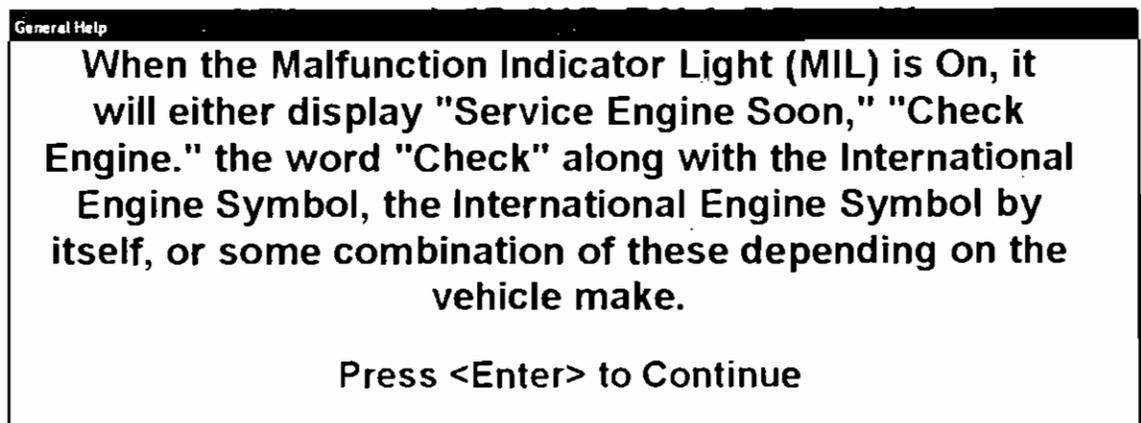


Figure Error! No text of specified style in document.-58 KOEO Help

6. Wait while the NYVIP Vehicle Inspection System connects to the vehicle computer.

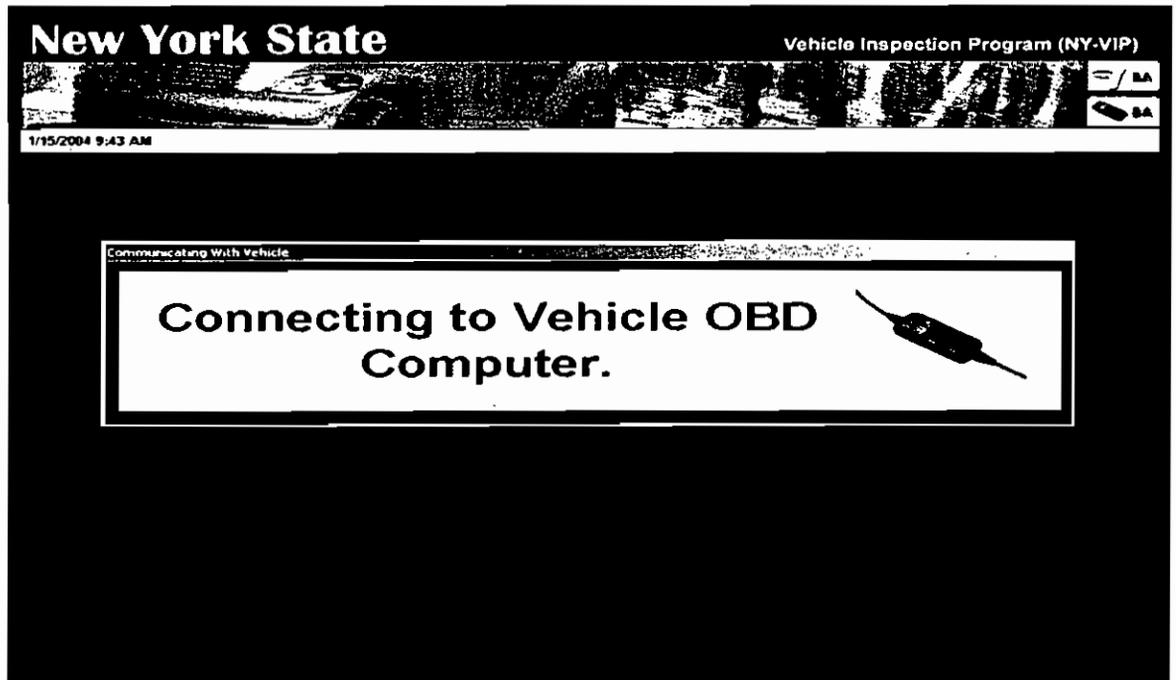


Figure 4-59 Connecting to Vehicle OBD Computer

7. If the following message appears, NYVIP has not seen a communication signal from the vehicle's OBDII connector.
8. If either the NYVIP's OBDII connector or the vehicle's DLC connector is broken or missing, press 'Y' to continue.

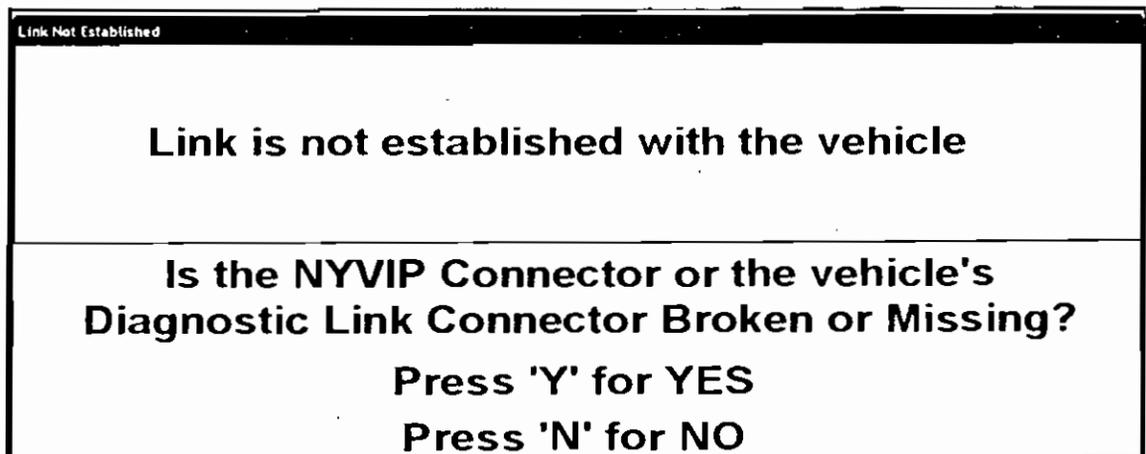


Figure Error! No text of specified style in document.-60 OBDII Link Not Established

9. Confirm that your selection is correct.

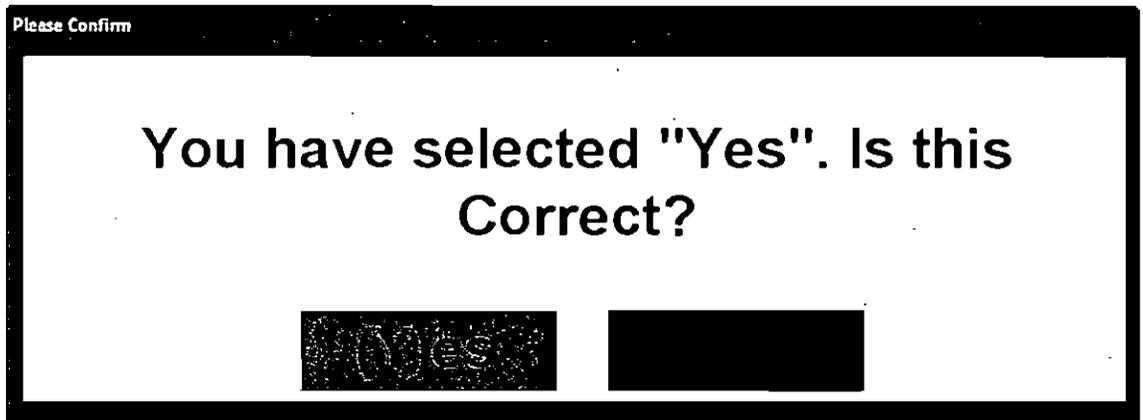


Figure Error! No text of specified style in document.-61 Confirm Selecting Yes

10. If the connectors are OK, press 'N' to continue.

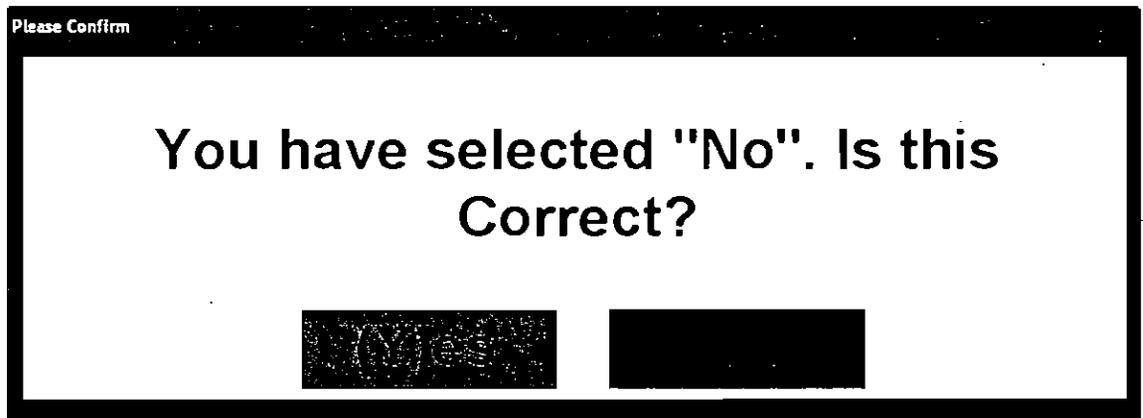


Figure Error! No text of specified style in document.-62 Confirm Selecting No

11. The next message directs you to remove and reconnect the NYVIP Connector to the vehicle's DLC. Often bad DLC connections are due to a poor electrical connection at the DLC. Removing and re-inserting the NYVIP Connector may correct the poor connection. Turning the key off for 30 seconds allows the vehicle's computer to reset. Remember to turn the key back On before pressing 'Enter' or 'Y' on the OBD Scan Tool. This message may appear up to three times if the OBD connection is still not made.

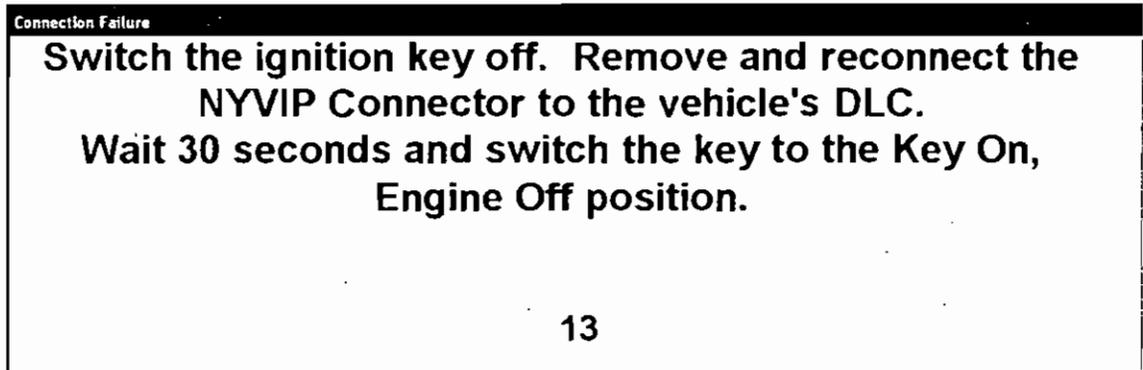


Figure Error! No text of specified style in document.-63 OBD Connection Message

12. If the NYVIP cannot successfully communicate with the vehicle, the test will result in an OBD inspection failure and the following screen is displayed. Select the option that best describes why the OBD communication failed:

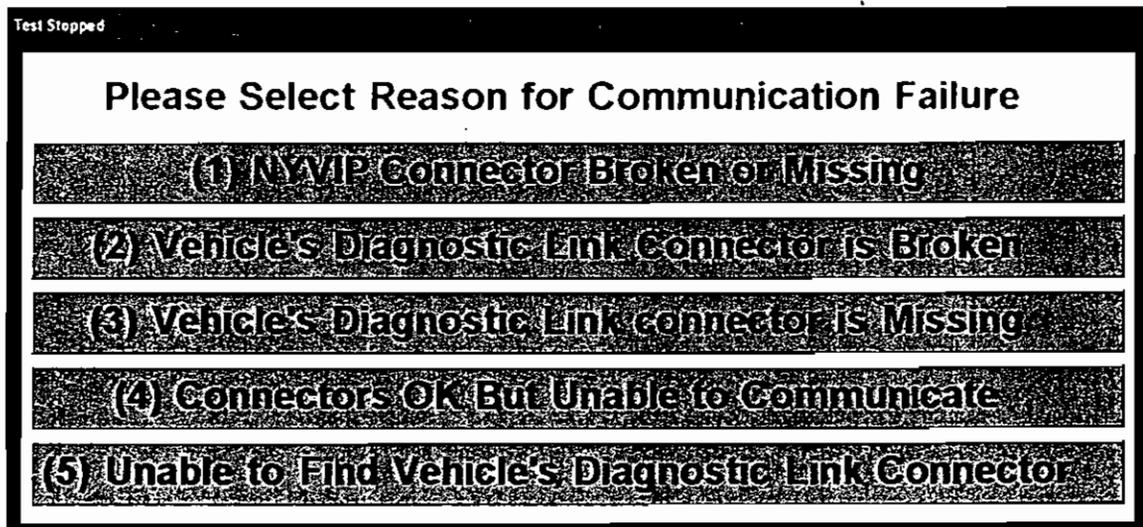


Figure Error! No text of specified style in document.-64 Reason for OBD Communication Failure

13. If OBD Communication was successful, wait for NYVIP to verify the vehicle type.

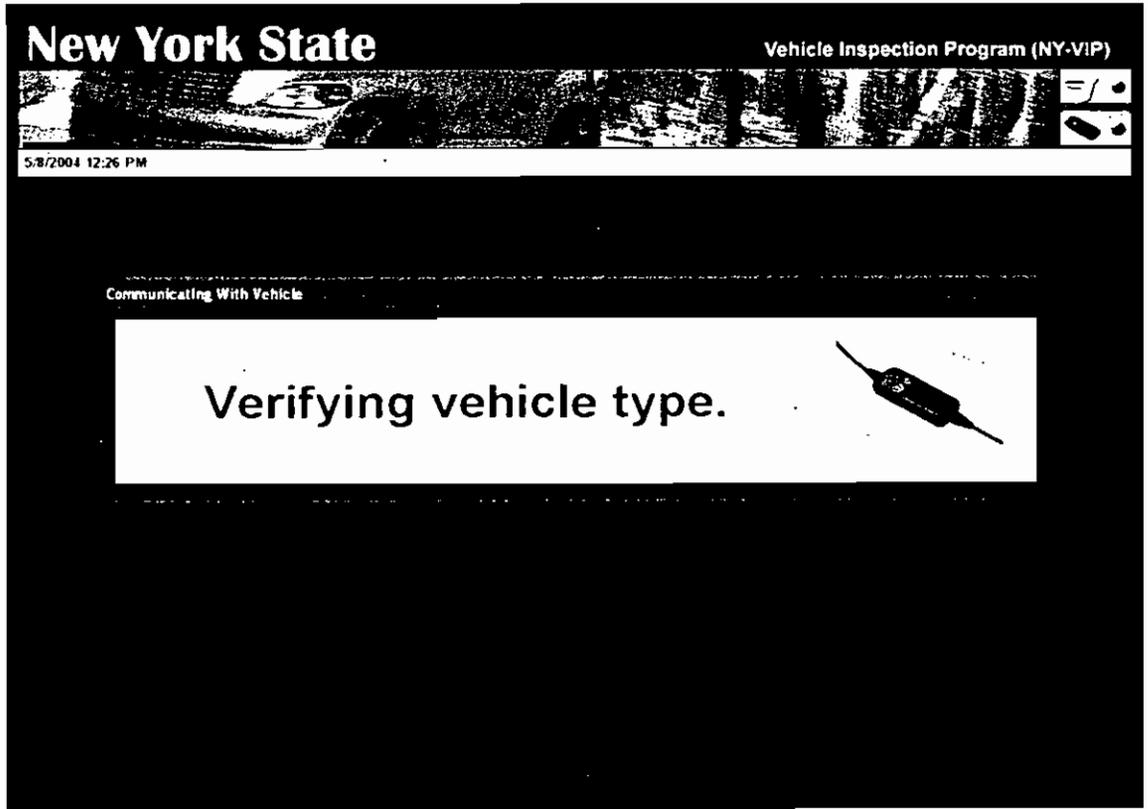


Figure Error! No text of specified style in document.-65 Verifying Vehicle Type .

14. When the Key On Engine Running (KOER) screen is displayed, **Start the Engine**. Select (Y)es if the MIL stayed on after the engine was started or (N)o if the MIL turned off after the engine was started. Some vehicle malfunctions may cause the MIL to flash. Select (Y)es if this condition exists.

**New York State** Vehicle Inspection Program (NY-VIP)

KOER for 1999 FORD CONTOUR

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**Key On Engine Running (KOER) Check**

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**Start the Engine**

---

**Did the Malfunction Indicator Light (MIL)  
Stay On?**

Yes  No

---

**On Some Vehicles, the MIL will flash.  
Treat this as MIL Stays On  
Press <F1> For Help**

Figure 4-66 KOER MIL Check

15. Wait while NYVIP attempts to communicate with the vehicle's OBDII computer.

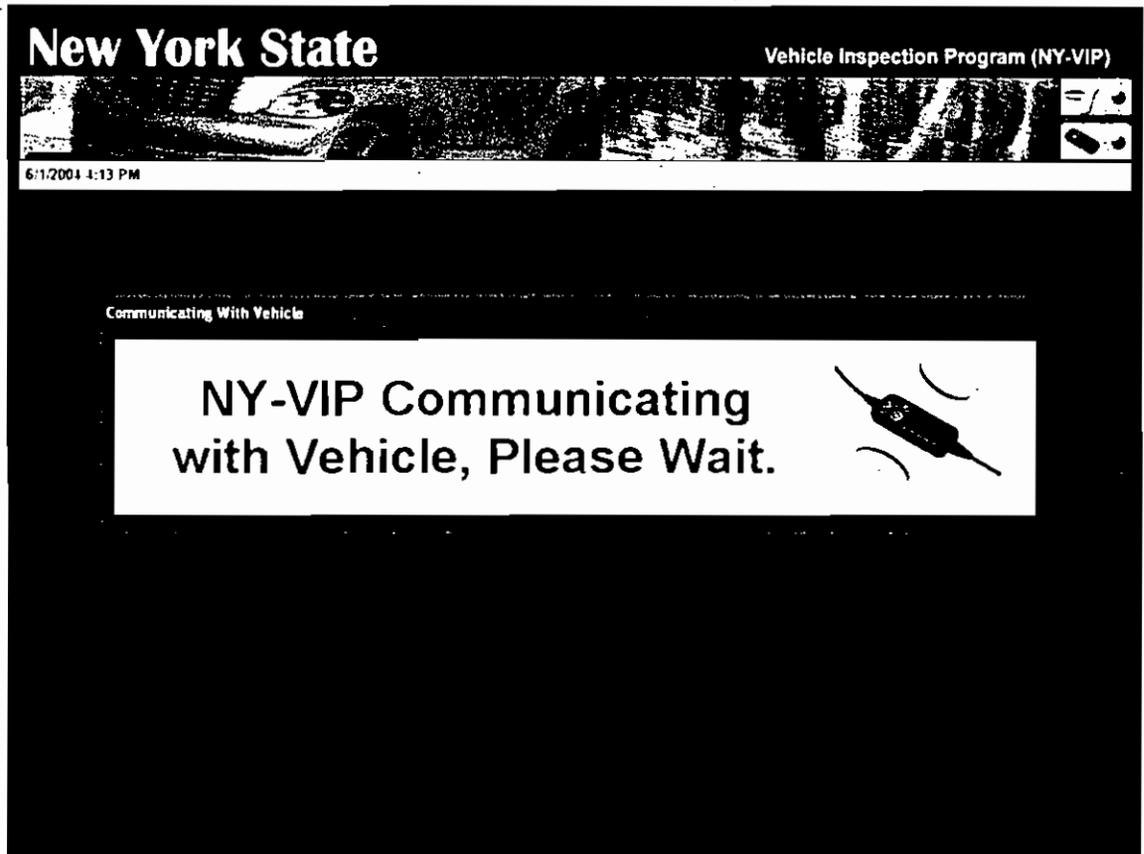


Figure Error! No text of specified style in document.-67 NYVIP Communicating with Vehicle

16. The inspection is now complete. Shut the vehicle down and remove the NYVIP Connector from the vehicle's DLC. Press 'Enter' to continue.

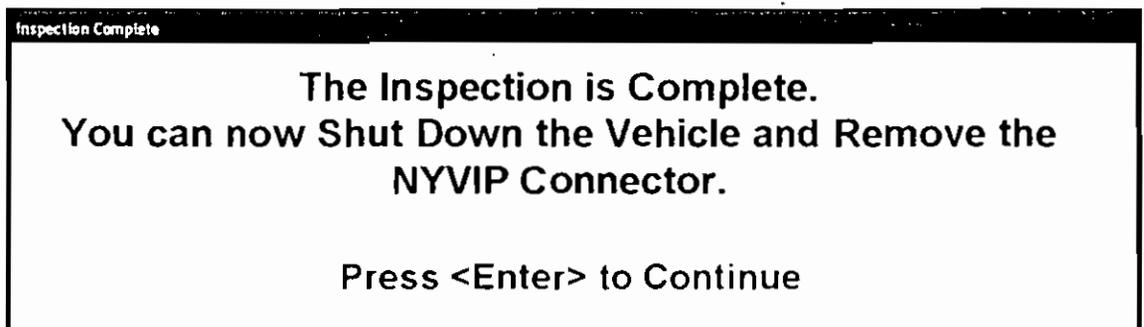


Figure 4-68 Inspection Complete

