

NEBRASKA ADMINISTRATIVE CODE

TITLE 250, NEBRASKA ADMINISTRATIVE CODE, CHAPTER 1

NEBRASKA DEPARTMENT OF MOTOR VEHICLES

**RULES AND REGULATIONS OF THE DEPARTMENT OF MOTOR VEHICLES REGARDING
THE APPROVAL AND INSTALLATION OF IGNITION INTERLOCK DEVICES AND
ADMINISTRATION OF THE IGNITION INTERLOCK PERMIT PROGRAM.**

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Nebraska Department of Motor Vehicles

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ALPHABETICAL TABLE OF CONTENTS

<u>Subject of Title</u>	<u>Statutory Authority</u>	<u>Code Section</u>
Approval by the Department and Removal of Approval	§ 60-6,211.11	006
Definitions	§§ 60-474; 60-480; 60-6,211.05; 83-1,127.02	003
Ignition Interlock Costs	§ 60-6,211.05	009 004
Ignition Interlock Device Performance Standards	§ 60-6,211.05; 89 FR #67, p. 26849, May 8 2013	007
Installation, Calibration, and Removal Standards	§ 60-6,211.05	002
Interpretation	§§ 60-498.01(1); 60-6,211.05; 84-906; 84-908	008
Issuance of the Ignition Interlock Permit (IIP)	§§ 60-482; 60-490; 60-498.01; 60-498.02; 60-4,118.06; 60-4,118.06; 60-6,197.02; 60-6,197.03; 60-6,197.05; 60-6,197.09; 60-6,209; 60-6,211.05; 60-6,211.11; 83-1,127.02; 83-1,129	005
Providers Qualifications and Yearly Recertification	§§ 60-498.02; 60-4,118.06; 60-6,211.05	001
Purpose	§§ 60-482; 60-6,211.05	001

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RULES AND REGULATIONS OF THE DEPARTMENT OF MOTOR VEHICLES REGARDING THE APPROVAL AND INSTALLATION OF IGNITION INTERLOCK DEVICES AND ADMINISTRATION OF THE IGNITION INTERLOCK PERMIT PROGRAM.

001 PURPOSE. The purpose of these rules and regulations is to promulgate performance standards for the approval and the installation of ignition interlock devices (also known as Breath Alcohol Ignition Interlock Device or BAIID) and administration of the ignition interlock permit program.

002 INTERPRETATION. These rules shall be interpreted so as to favor the safety of the public and the findings of the legislature that ignition interlock devices are designed to supplement other conditions of probation, reprieve, or punishment of those convicted of driving while intoxicated or driving under the influence. References to statutory standards, regulations, or governmental agencies shall be read as referring to and including any amendments. In the absence of a rule specifically addressing a particular matter, there shall be applied reasonable, just and equitable procedures and substantive decisions which are predictable from the spirit and intent of the legislative enactment and these rules.

003 DEFINITIONS.

003.01 Alcohol means ethanol or ethyl alcohol (C₂H₅OH).

003.02 ALR means administrative license revocation pursuant to Neb.Rev.Stat. § 60-498.01 to 60-498.04.

003.03 BrAC means the breath alcohol concentration in a given amount of breath, expressed a weight by volume (w/v) based upon grams of alcohol per 210 liters of breath (2100: 1 ratio).

003.04 Board means the Nebraska Board of Pardons.

003.05 Breath sample means a normal expired human breath primarily containing alveolar or end-expiratory breath that is analyzed for alcohol concentration (BrAC).

003.06 Circumvention means to bypass the proper operation of an ignition interlock device by the use of an altered breath sample, by starting the motor vehicle without using the ignition switch, or by any other means without first providing a valid breath sample.

003.07 Court means the judge who sentences a driver convicted of operating or being in the actual physical control of any motor vehicle while intoxicated or driving under the influence, or who refuses a chemical test, and as a condition of probation or sentence, imposes the use of an ignition interlock device. This definition also means any district

probation offices or court administrative officers assigned to the case of a driver limited to operation of a motor vehicle equipped with an ignition interlock device.

003.08 Department means the Nebraska Department of Motor Vehicles.

003.09 Director means the Director of the Nebraska Department of Motor Vehicles or his or her designee.

003.10 Driver means a person who has been convicted under Neb. Rev. Stat. § 60-6,196 or 60-6,197 and has been ordered by the court or by the Board of Pardons that he or she not operate a motor vehicle during the time period stated in the order unless his or her motor vehicle is equipped with a functioning and approved ignition interlock device and the person has obtained the required license or permit. Driver also means any person who applies to the Department for issuance of an Ignition Interlock Permit for use during a period of administrative license revocation.

003.11 Eligible means that an operator's license is not subject to any other suspension, cancellation, impoundment, no-driving period, or period of revocation; and the person has successfully completed the ignition interlock permit application process, served any applicable no-drive period; and:

003.11A Is subject to an administrative license revocation pursuant to Neb. Rev. Stat. §§ 60-498.01 through 60-498.04 and has waived his or her right to an administrative license revocation hearing; or

003.11B Is subject to a court order for an Ignition Interlock Permit as part of a sentence pursuant to Neb. Rev. Stat. §§ 60-6,196, 60-6,197.01, 60-6,197.03, 60-6,197.06, 28-306(3)(b) or (c), 28-394(3)(b) or (c); or

003.11C Has an order from the Board for an Ignition Interlock Permit.

003.12 Ignition interlock device, or (breath alcohol ignition interlock device, or BAIID) means a device that is designed to allow a driver to start a motor vehicle if the driver's BrAC is below the set point and to prevent the driver from starting the motor vehicle if the driver's BrAC is at or above the set point. The purpose of the ignition interlock device is to measure the BrAC of the driver, to prevent the motor vehicle from being started if the BrAC exceeds a pre-set limit, to deter and to record circumvention or tampering with the device.

003.13 Ignition Interlock Fund means the fund to be used by the Department of Motor Vehicles to pay for the cost of installation, removal, and maintenance of the ignition interlock device for any person the Department has determined to be indigent and incapable of paying as provided in Neb. Rev. Stat. §.60-6,211.05(8)(b).

003.14 Ignition Interlock Permit (IIP) means a permit issued to a driver which allows the driver to operate a motor vehicle which is equipped with an ignition interlock device. The permitted uses of the driver's IIP shall be printed on the back of the IIP. An IIP will not confer CDL privileges.

003.15 Interlock Data Logger means a device within an ignition interlock device that records all pertinent events and times during the period of installation and use of an ignition interlock device.

003.16 Lockout or lockout mode means the ignition interlock device shall cause the ignition system of the motor vehicle to be disabled, thereby preventing the motor vehicle from starting, or, if in motion, preventing further tests from being introduced once the engine is turned off.

003.17 NHTSA means the National Highway Traffic Safety Administration.

003.18 Operator's license means any license or permit to operate a motor vehicle issued under the laws of this state, including:

- (1) Any replacement or duplicate license or instruction permit;
- (2) The privilege of any person to drive a motor vehicle whether such person holds a valid license;
- (3) Any nonresident's operating privilege which means the privilege conferred upon a nonresident by the laws of this state pertaining to the operation of a motor vehicle in this state by such person or the use in this state of a motor vehicle owned by such person;
- (4) An employment driving permit issued as provided by section 60-4,129 and 60-4,130; and
- (5) A medical hardship driving permit issued as provided by sections 60-4,130.01 and 60-4,130.02.

003.19 Provider means an approved vendor, distributor, or supplier of an ignition interlock device. The provider shall have installer sites to act as the provider's agent throughout Nebraska. The provider is responsible to the department for the actions or inactions of its installers.

003.20 Retest means two additional opportunities to provide a breath sample below the alcohol set point when the initial test failed before the vehicle will enter a temporary lockout.

003.21 Running retest means a subsequent breath test that must be initiated within five minutes after starting the vehicle and randomly during each subsequent thirty minute time period thereafter while the vehicle is in operation;

003.22 Set point means the Breath Alcohol Concentration (BrAC) at which a BAIID is set to prevent a vehicle from starting. In Nebraska, the set point is .03 BrAC.

003.23 Tampering means to physically disable, disconnect, adjust, or otherwise alter the proper operation of an ignition interlock device in any way that allows the motor vehicle to be started without the driver providing his or her own breath sample into the ignition interlock device, or allows a driver with a BrAC at or above the set point to start the engine.

003.24 Test fail or failed test means the ignition interlock device has not received a valid sample under the alcohol set point within 15 minutes of the initial test or 15 minutes of a rolling retest.

003.25 Valid Sample means a breath sample below the .03 BrAC set point so that the ignition interlock device will enable the vehicle to start.

004 IGNITION INTERLOCK DEVICE PERFORMANCE STANDARDS. An ignition interlock device must meet the following criteria to be approved for use in Nebraska:

004.01 NHTSA Standards. The breath alcohol ignition interlock device must be accompanied by a certificate of an independent testing laboratory indicating that the device meets or exceeds the performance standards of the National Highway Traffic Safety Administration for such devices as published in Model Specifications for Breath Alcohol Ignition Interlock Devices, (BAIID), Federal Register, Volume 78 , No. 89, Page 26849 et seq. on May 8, 2013, as amended, and which are incorporated with these rules and regulations as Attachment 1. A complete and certified copy of the testing protocol and the results thereof of the independent testing laboratory shall also accompany the breath alcohol ignition interlock device specifications submitted for approval.

004.02 Current Ignition Interlock Devices. Any ignition interlock device approved by the Department prior to the effective date of these rules and regulations may continue to be used in Nebraska and may be recertified until December 31, 2017 without meeting 004.01 provided the device and provider meet all other requirements in these rules and regulations. Beginning January 1, 2018, all interlocks must conform completely to these rules and regulations.

004.03 Camera. The submitted ignition interlock device must have a camera; and the digital images taken shall capture a wide-angle view of the area around the steering wheel and front cabin;

004.04 Safe Operation. The ignition interlock device shall offer safe operation of the motor vehicle in which the device is installed;

004.05 No Tampering. The ignition interlock device shall offer protection against tampering and preservation of evidence of such tampering;

004.06 No Circumvention. The ignition interlock device shall be able to detect and be resistant to circumvention;

004.07 Reliable. The ignition interlock device shall work reliably and accurately in an unsupervised environment and, if the ignition interlock device cannot operate properly the device will lockout. If fault is found with the ignition interlock device, the costs for repair or replacement shall be borne by the provider and manufacturer.

004.08 Restart. The ignition interlock device shall be able to initiate a "restart" of the motor vehicle's ignition within two minutes after the ignition has been turned off without

requiring another breath alcohol analysis so long as the driver has not registered a BrAC fail or is not in the process of completing a retest;

004.09 Fuel Cell. The ignition interlock device shall use an alcohol specific fuel cell technology and shall be designed and constructed to measure a driver's breath alcohol concentration from a deep lung breath sample blown directly into the device;

004.10 Three Attempts. The ignition interlock device shall permit the driver three attempts to provide a valid sample in 15 minutes. The device will require at least 3 minutes before accepting the next sample. When first starting the vehicle, the ignition interlock device will lockout temporarily for 30 minutes if no valid sample is provided within 15 minutes.

004.11 Permanent Lockout Warning. The ignition interlock device shall provide a warning for five days before the ignition system of the motor vehicle is permanently locked for any of the following:

- A. After a temporary lockout;
- B. After circumvention or tampering with a device; or
- C. Time for calibration, download, or service.

004.12 Data Logger. The ignition interlock device shall record each time the motor vehicle is started, the time of each start, how long the motor vehicle was operated, and any instances of tampering or circumvention of the unit;

004.13 Running Retest. The ignition interlock devices shall require running retests. The running retest shall take place within the first five minutes of starting operation of the motor vehicle. After the initial running retest, the ignition interlock device shall require the driver to perform another randomly timed running retest during each following 30-minute interval of operation until the motor vehicle is turned off.

004.13A In order to alert the driver that a running retest is required, a warning light and/or tone shall come on. After the warning is activated, the driver shall have five minutes to safely provide a valid sample. If the sample fails, the driver shall have an additional five minutes to provide a valid breath sample for the retest. The motorist will have three opportunities in total to provide a valid sample before the ignition interlock device enters lockout mode and will temporarily lockout when the ignition is turned off.

004.14 Visible Cautions. The ignition interlock device shall visibly and/or audibly indicate the following to the driver and any qualified person:

004.14A the device is on;

004.14B the device has enabled the ignition system of the motor vehicle in which it is installed;

004.14C the device is in need of service or calibration at least five days before the end of the calibration interval;

004.14D the failure to provide a valid sample and the number of remaining retests permitted before a temporary lockout;

004.14E A test or running retest failure;

004.14F A failure to take a test or running retest when required;

004.14G A circumvention; or

004.14H A tampering.

004.15 Options. An ignition interlock device may have a detachable sensor to allow mail-in service to customers. An ignition interlock device may include advanced technologies, e.g., real time reporting or GPS.

005 PROVIDERS QUALIFICATIONS AND YEARLY RECERTIFICATION

005.01 Installers are Agents. The provider may designate representatives to install ignition interlock devices. The installers are direct agents of the provider, and the provider is responsible for the actions of the installers. The installers must adhere to these rules and regulations in the same manner as the provider, and the provider is responsible for training and instructing the installers in the requirements of these rules and regulations. A provider may be removed from the list of approved ignition interlock devices for the action or inaction of the provider's installer.

005.02 Required Locations of Ignition Interlock Device Installation Facilities. The provider must have at least one designated representative installer physical location in each of the 12 probation districts in Nebraska. Each physical location must be a full service facility that can install, calibrate, service and remove ignition interlock devices. Although mobile service may be offered in Nebraska, it shall not be a substitute for the 12 physical locations.

005.03 Addresses and Contact Information for Installation Facilities. The provider shall provide a list of addresses and contact information of the provider's installers to the Department and to the Nebraska Supreme Court Office of Probation Administration, P.O. Box 98910, Lincoln, NE 68509 by January 15 of each year. The addresses and/or contact information may be changed as necessary but notice of any change or changes shall be sent to the Department and Office of Probation Administration prior to the effective date of the change or changes.

005.04 Fee Schedule. The provider shall provide a schedule of fees for services to the Department. Such fee information shall be sent to the Department by January 15 of each year or upon any changes. This schedule will be used to calculate reimbursements from the indigent fund.

005.05 Insurance. The provider shall have and maintain general business insurance and product liability insurance for the ignition interlock device for which approval is sought. The provider shall require each of its installers to have and maintain general liability insurance, and may require other insurance.

005.06 Indemnification. The provider shall agree to indemnify the State of Nebraska, its employees, agents, assignees, and legal representative with respect to any liabilities, demands, claims, suits, losses, damages, causes of action, fines or judgments and expenses related thereto which may in any manner accrue or be asserted against the State, the Department, its employees, agents, assignees and legal representatives that arise in connection with installation and/or use of an ignition interlock device and shall hold the State harmless.

005.07 Inspection. Representatives of the Department shall have the right to inspect the premises of any location within the State of Nebraska where the provider installs ignition interlock devices, to test devices, and to audit drivers' records.

005.08 Cooperation with State and Subdivisions of Government. Every provider shall cooperate with and report to the Department, the courts, district probation offices, and the Board in this state in the manner as may be required by such agencies. Whenever it comes to the attention of the Director that a provider has failed to cooperate with authorities or to comply with any rule or requirement of the Department, the courts, district probation offices, or Board, such failure will be grounds for removing the provider from the list of approved ignition interlock devices. Receipt of timely information by the Department that the issue has been resolved may avoid removal of the provider from the approved list.

005.09 Electronic Report. The provider shall electronically report to the Department hourly. The Department's electronic database of these reports will be accessible to the court, district probation office, and the Board. The following occurrences shall be reported:

005.09A Lockouts. A lockout except, for circumvention or tampering the report is unnecessary if the driver provides receipts from a licensed automotive facility, including the date, which indicates that mechanical service was performed on the motor vehicle which caused the circumvention or tamper.

005.09B Installation. Installation of an ignition interlock device, including the specific vehicle and driver.

005.09C Removal. Removal of the ignition interlock device.

005.10 Verify Motorists Eligibility for Interlock Permit. Prior to installation of an interlock device, the provider shall verify that the motorist is eligible for an IIP by using the Department's internet site *Click DMV, Driver License Services, Check Ignition Interlock Eligibility*. If the motorist is ineligible, no interlock device will be installed.

005.10A Anyone with a valid license, even if not required to have an IIP, may voluntarily put an ignition interlock device on his vehicle.

005.11 Provide Reports upon Request. The provider shall provide copies of all records for any driver/client to law enforcement officers or representatives of the Department, a court, district probation office, or the Board, upon request. This shall include, but is not limited to, records of installation, calibration, maintenance checks, usage records, disclaimer forms, images, and incident reports of any driver or drivers or any or all of their ignition interlock devices placed in service in Nebraska. A provider shall retain all of a driver's ignition interlock records for at least one year after the ignition interlock device has been removed from the driver's motor vehicle or motor vehicles.

005.12 Permit access to Provider's Nebraska Database. The provider shall provide continuing access to its own database of Nebraska drivers to law enforcement, the Department, a court, district probation office, or the Board, upon request by the Department.

005.13 Digital Image.

005.13A At installation the provider must take a digital reference image of the driver with the camera. The image shall capture a wide-angle view of the area around the steering wheel and front cabin. The reference image shall be retained by the provider for identification of the person receiving the equipment.

005.13B The ignition interlock device camera shall have sufficient storage for all digital images taken until the date of the next calibration at which point images may be downloaded and stored by the provider.

005.13B1 Images shall be retained by the provider in electronic format sufficient to allow the provider to find, select, and provide specific images of events upon request by the DMV, a court, a probation office or the Board of Pardons.

005.13B2 Images recorded pursuant to this section may be disposed of one year after the ignition interlock has been removed from the motor vehicle.

005.13C At minimum an image shall be taken when there is a test fail, a failure to take a test when required, a rolling retest failure, or a failure to complete a rolling retest.

005.14 Department Notice. The Department shall give written notice to the provider if the Department identifies any action or inaction that violates 005.01, 005.02, or 005.08, supra. The provider shall have 30 days from the mailing of the notice to comply or cure the defect or implement a corrective action plan with a timeline approved by the Department. The provider will provide written notification to the Department specifying the course of corrective action.

006 Ignition Interlock Device Approval and Removal of Approval by the Department.

006.01 Certificate of Approval. Upon the demonstration by the provider that a device meets the criteria outlined in these rules and regulations, the Department may issue a certificate of approval for use of the ignition interlock device in Nebraska.

006.02 Removal of Approval. The Department shall maintain a list of approved ignition interlock devices, providers, and their manufacturers. The Department has the sole discretion to approve ignition interlock devices for use in this state or remove such devices from the approved list for failure to comply with these regulations or other good cause shown. If an ignition interlock device is removed from NHTSA's Conforming Product's List, that shall also be grounds for the Department to remove ignition interlock devices from the list of approved interlock devices in this state.

006.03 Webpage. A randomly ordered list of providers with approved ignition interlock devices for use in Nebraska will be posted on the Department's webpage. It shall be the responsibility of the provider to notify the Department with updated contact information for the webpage.

006.04 Independent Checks on Ignition Interlock Devices. The Department may conduct, or have conducted, independent checks on any of the approved ignition interlock devices to determine if the devices are operating within these rules and regulations. If the independent check indicates that the rules and regulations are not being followed, the Department shall require the provider to correct any abnormality found in the installation, calibration, maintenance checks, or usage records of the device. The provider shall report in writing to the Department within 30 days after receiving notification of the abnormality. The Department has the authority to remove any provider or device not found to be in compliance with these rules and regulations from the list of approved ignition interlock devices.

007 INSTALLATION, CALIBRATION, AND REMOVAL.

007.01 An ignition interlock device, required by an administrative license revocation, probation order, sentence, or Board order, shall be a device approved by the Department and installed by the provider in conformance with the directions of the manufacturer. A device must be installed by an installer at the provider's physical location or by a provider's mobile installation service.

007.02 Instruction. The provider shall instruct the driver in the operation of the ignition interlock device, safe operation of a motor vehicle while the ignition interlock device is installed, and compliance with required procedures, including but not limited to responding to a signal from the device to report to the provider for service. The driver shall be instructed that he or she must contact the provider to have the interlock data logger downloaded within five days of receipt of a message for service. The driver shall be instructed that failure to arrange and complete such download or service within five days will result in a lockout.

007.03 Required Calibration. The ignition interlock device shall signal a need for calibration at 30 days. If the calibration is not checked by the provider prior to the 36th

day, on the 36th day the ignition interlock device shall prevent the motor vehicle from being started. The ignition interlock device may be calibrated using either a wet alcohol standard or a compressed gas standard. The ignition interlock may be calibrated by the provider using a mailing service. The calibration record shall be maintained by the provider and a copy shall be given to the driver. The calibration record shall include:

007.03A The name of the person performing the calibration;

007.03B The date;

007.03C The value and type of standard used;

007.03D The unit type and identification number(s) of the ignition interlock device checked; and

007.03E The description of the motor vehicle in which the ignition interlock device is installed, including plate number and state, make, model, year, and color.

007.04 Removal of Ignition Interlock Device.

007.04B Removal of Ignition Interlock Device Prior and Legal Requirement for Ignition Interlock Device. An ignition interlock device may be removed by the provider upon a driver's request. A driver who has an ignition interlock device removed prior to the expiration date of the IIP or Class O interlock shall be cautioned that he or she cannot legally operate a motor vehicle until his or her period of revocation has passed and he or she has been issued a new driver license. An ignition interlock device may also be removed for any reason specified in the contract between the driver and the provider.

007.04C Electronic Removal Report. Removal of an ignition interlock device shall be electronically reported to the Department as provided in these regulations.

007.04D Transfer of Title. If a motor vehicle equipped with an ignition interlock device is sold or otherwise transferred as provided in Neb. Rev. Stat. § 60-395, the ignition interlock device must be removed from the motor vehicle before transfer of title or payment of any refund of registration fees, motor vehicle fees, or motor vehicle taxes. An owner may be required to present evidence of removal of the ignition interlock device prior to payment of any refund.

008 ISSUANCE OF THE IGNITION INTERLOCK PERMIT (IIP). Any driver subject to an order of administrative license revocation from the Department or who has an order for an IIP and ignition interlock device from a court or the Board may apply for an IIP.

008.01 Eligibility. The Applicant will verify eligibility for an ignition interlock device through *Click DMV*, *Driver License Services*, *Check Ignition Interlock Eligibility* or by calling the Financial Responsibility Division at 402-471-3985.

008.02 Application. The Department will provide an online application for issuance on the Department webpage at www.dmv.nebraska.gov. A paper application form will also be available upon request. The application shall contain a statement from the applicant for an IIP that he or she acknowledges that he or she understands that he or she will have his or her license administratively revoked pursuant to Neb. Rev. Stat. §§ 60-498.01 and 60-493.02, that he or she waives his or her right to a hearing to contest the revocation, and that he or she understands that he or she is required to have an ignition interlock permit to legally operate a motor vehicle for the period of the revocation and may be subject to no-driving periods as specified in statute before the IIP may be issued.

008.03 Authorization for IIP. The Department of Motor Vehicles will authorize issuance of an IIP to a driver who, after he or she has submitted an order for an IIP from a court or the Board of Pardons or submitted an application for an IIP while subject to an administrative license revocation, has met all requirements, and is not ineligible for an IIP for any reason. After authorization, as set forth below, the IIP applicant shall apply for the IIP.

008.03A IIP Order from Court or Board of Pardons. The Department must receive 1) sufficient evidence of installation of the ignition interlock device, 2) a certified abstract of a court order for an IIP or an order from the Board allowing the driver to operate a motor vehicle with an ignition interlock device, before authorizing the issuance of the IIP. The driver must serve any required no-drive period and be determined to be eligible prior to authorization for an IIP. The driver must surrender his or her driver license to the Department. Drivers shall be subject to the law in place on the date of arrest.

008.03B Administrative License Revocation. To obtain an IIP for use during a period of administrative license revocation, an arrested driver shall complete the IIP application, install an ignition interlock device, and surrender his operator's license. The Department shall allow the driver to be issued an IIP for use during a period of administrative license revocation if the driver is determined to be eligible and the driver has served any required no-drive period. Drivers are subject to the law in place on the date of arrest.

008.04 Determination of IIP Eligibility. Prior to issuance of an IIP, the Department shall review its records of any driver who applies for an IIP allowing operation of a motor vehicle equipped with an ignition interlock device to determine (a) the applicant's eligibility for an IIP; (b) the applicant's previous convictions under Neb. Rev. Stat. § 60-6,196, 60-6,197, or 60-6,197.06 or any previous administrative license revocation within any preceding 15 years, if any; (c) if the applicant is subject to any required no-drive periods before the IIP may be issued; and (d) the permitted driving uses to be allowed to that driver on his or her IIP. The Department will determine the eligibility of the driver, and apply any credit the driver may have for revocation dates served or no-driving days served before issuing the IIP to the driver. A driver shall contact the Department to determine their eligibility for an ignition interlock device prior to having a device installed.

008.05 Obtaining an IIP. After authorization, an IIP may be obtained at a Department licensing station in Nebraska or through an online issuance process.

008.06 Applicable No-Driving Periods.

008.06A No Priors. Any driver who is subject to an administrative license revocation and who has no such prior revocations within the preceding 15-year period who has not petitioned for an administrative hearing may immediately apply for an IIP to use for operation of a motor vehicle during the 180-day period of revocation so long as he or she is otherwise eligible for such permit.

008.06B Prior Revocations. Any driver who is subject to an administrative license revocation and has one or more prior such revocations within the preceding 15 years, who submitted to a chemical test pursuant to Neb. Rev. Stat. § 60-6,197, and who has not petitioned for an administrative hearing may apply for an IIP to use during the one-year period of revocation after serving a 45-day period with no driving so long as he or she is otherwise eligible for such permit.

008.06C Refusal. Any driver subject to an administrative license revocation for refusal of a chemical test, and who has not petitioned for an administrative hearing may apply for an IIP to use during the one year after serving a 90-day period with no driving so long as he or she is otherwise eligible.

008.06D Reprieve from Board of Pardons. Any driver subject to an order from the Board requiring use of an ignition interlock device for operation of a motor vehicle must use the device and comply with the requirement of the IIP for the time period designated by the Board in its order, subject to any conditions which may be ordered by the Board as soon as the driver completes the application process.

008.06E Alcohol-Related Offenses. A court may only issue an order for an IIP to a driver subject to a driver license revocation and sentenced pursuant to Neb. Rev. Stat. § 28-306(3)(b) or (c), 28-394(3)(b) or (c), 60-6,196, 60-6,197, 60-6,197.06, or 28-1254. The Department will determine the eligibility of the driver, and apply any credit the driver may have for revocation days served or no-driving days served pursuant to Neb. Rev. Stat. §§ 60-498.01 through 60-498.02 before issuing the IIP to the driver. If the driver does not have sufficient credit, he or she will have to serve any remaining no-driving days and period of revocation as may be required by the court and applicable statutes.

008.07 Limitations on Driving Privileges. Ignition interlock driving privileges with an IIP for new or repeat offenders shall be subject to driving restrictions as required by Nebraska statute at the time the permit was issued. Any applicable driving restrictions will be printed on the reverse of the IIP.

008.08 Legal Operation of a Motor Vehicle Equipped with an Ignition Interlock Device. A person who is subject to a revocation of his or her driver license may not legally operate a motor vehicle equipped with an ignition interlock device until he or she has been issued an IIP. The IIP may be renewed if the permit expires prior to the end of

any revocation period the driver has been ordered to serve. The fees for such license or permit shall be as provided in Neb. Rev. Stat. § 60-4,115 and shall be paid at the time the IIP is issued.

008.09 Extension of Requirement for IIP. Whenever it comes to the attention of the Director that a person has tampered with or circumvented an ignition interlock device installed pursuant to Neb. Rev. Stat. §§ 60-498.01 through 60-498.04 or operated a motor vehicle not equipped with a functioning ignition interlock device required pursuant to such sections or otherwise violated allowed purposes for operation indicated on the IIP under such sections shall, in addition to any possible criminal charges, have his or her revocation period and IIP extended for six months beyond the end of the original revocation period.

008.10 Commercial Motor Vehicles. An IIP shall not be issued for the operation of a commercial motor vehicle.

008.11 Applicability of Law. IIPs shall be available to drivers according to Nebraska statutes in place on the date of the driver's arrest.

008.12 Reinstatement or Renewal Requirement. A driver who has completed his or her period of revocation cannot drive legally until he or she completes the reinstatement process with the Department and has been issued a new driver license. A driver subject to a period of revocation may need to renew the IIP if his or her period of driver license revocation exceeds five years.

008.13 Lockouts and Driver's Responsibilities A driver required to have an IIP and ignition interlock device must contact the device's provider to have the interlock data logger downloaded within five days of an occurrence listed below. Failure of the driver to arrange and complete such download or service within five days shall cause the motor vehicle to permanently lockout.

008.13A A test fail after three invalid samples in 15 minutes;

008.13B A failure to take a retest after an initial invalid sample;

008.13C A running retest failure after three invalid samples in 10 minutes;

008.13D A failure to complete a running retest after an invalid sample.

008.13E After a circumvention or tampering.

009 IGNITION INTERLOCK COSTS. The costs associated with ignition interlock device requirements shall be paid by the driver directly to the provider of the ignition interlock device. Such costs shall include, but are not limited to, refundable deposit, installation, maintenance, and removal of an ignition interlock device.

009.01 Refundable Deposit Fee. A provider may charge a driver a deposit fee prior to the installation of an ignition interlock device. If a provider requires payment of a

deposit prior to installation, such fee must be required of all drivers and shall not be charged selectively. The amount of the deposit fee charged shall be uniform for all drivers and may not exceed the amount of the installation fee charged for an ignition interlock device.

009.01A Deposit and Refund. The deposit amount may be used by the provider to offset unpaid costs owed to the provider by the driver, including damages to the ignition interlock device. The provider shall give the driver an itemized statement of any costs that were deducted from the refund amount. The provider shall keep a copy of that itemized statement.

009.01B Indigent Deposit. A provider may require payment of a refundable deposit for the installation of an ignition interlock device for a driver who has been determined to be indigent. The Ignition Interlock Fund shall not be used to pay the cost of any deposit. The refundable deposit fee shall be paid for by the indigent driver and shall be refunded to the indigent driver when the device is removed by the provider. A provider who receives reimbursement for installation, maintenance, and removal of an ignition interlock device from the Department of Motor Vehicles Ignition Interlock Fund shall not offset any installation, maintenance, or removal costs from the refund of deposit fee to an indigent driver upon return of the device, but may deduct other unpaid or damages from the refund. The provider shall give the driver an itemized statement of any deductions from the refund amount. The provider shall keep a copy of that itemized statement.

009.02 Indigent Drivers.

009.02A Application. The Department shall post an affidavit for determination of indigency online on the Department's webpage at www.dmv.ne.gov or make such affidavit available to individuals upon request. A driver claiming indigence shall send a completed, notarized affidavit or provide equivalent information to the Department for review.

009.02B Approval and Denial. Upon receipt of an affidavit for determination of indigency, the Department will review the affidavit to determine the applicant driver's indigency status and verify the applicant's eligibility for an IIP. The Department may deny a driver's affidavit if the information is incomplete, or if it does not show the applicant is indigent.

009.02C Determination of Indigency. An applicant applying for assistance from the Department of Motor Vehicles Ignition Interlock Fund shall meet 150 percent or less of the federal poverty guidelines published in the Federal Register pursuant to 45 CFR Part 1611.3 setting out Income Level for Individuals Eligible for Assistance to qualify as indigent. The Department may also consider the income, expenses, and assets as reported by the driver in his or her affidavit. Applicants shall provide documentation of current income with a pay stub, most recent W2, most recent tax return, or statement from an employer with the application. The Department will document its decision and provide a copy to the driver.

009.02D Installation. An applicant determined to be indigent may apply for installation of an approved ignition interlock device. The driver shall show the provider the documentation showing approval for assistance by the Department of Motor Vehicles Ignition Interlock Fund as part of the process for installing the ignition interlock device.

009.03 Provider Reimbursement.

009.03A Monthly Statement. Providers who wish to receive reimbursement for installation, maintenance, or removal of ignition interlock devices for drivers qualified as indigent shall enter into a written contract with the Department. Providers shall present a monthly bill to the Department listing the drivers served and itemizing the services for which reimbursement is claimed. Reimbursable costs are limited to fees for installation, maintenance, and removal of an ignition interlock device.

009.03B Final Bill Due. When an ignition interlock device is removed from the motor vehicle of a driver qualified as indigent, within 30 days the provider shall send a final itemized statement to the Department which documents the removal of the device for that driver and return of any deposit fee, if applicable.

009.03C Statement Form. A reimbursement form shall be available on the Department webpage for use by providers. The reimbursable fees charged by a provider to an indigent driver for use of an ignition interlock device shall not exceed the fees for such services charged to other customers for an ignition interlock device.

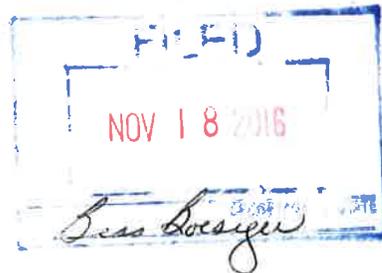
009.03D Payment. Upon review of the statement for accuracy, such costs shall be paid to the provider on a monthly basis by the Department out of the Department of Motor Vehicles Ignition Interlock Fund, to the extent such funds are available. There shall be no provider reimbursement if there are no monies in the Fund. The Department reserves the right to deny payment for insufficient or incomplete statements, untimely statements, or any claims submitted that are not supported by the records of the Department upon review of the statement.

APPROVED
DOUGLAS J. PETERSON
ATTORNEY GENERAL

APPROVED

NOV 18 2016

Pete Ricketts
PETE RICKETTS
GOVERNOR



NOV 19 2016

BY *Melissa*
ASSISTANT ATTORNEY GENERAL

The survey will be conducted as an address-based mail survey with the mailings sent out by the Idaho Transportation Department. It will include a pre-survey letter and a series of mailed reminders. Completed questionnaires will be returned in postage-paid pre-addressed envelopes to NHTSA's contractor for this project, Battelle. The survey will be administered only once per respondent. It will be made available on-line for any respondents that prefer to do the survey on-line. The on-line option is included to ensure adequate participation by younger drivers. No personally identifiable information will be collected; all results will be reported in the aggregate.

Description of the Need for the Information and Proposed Use of the Information—The National Highway Traffic Safety Administration (NHTSA) was established by the Highway Safety Act of 1970 (23 U.S.C. 101) to carry out a Congressional mandate to reduce the number of deaths, injuries, and economic losses resulting from motor vehicle crashes on the Nation's highways. Speeding is one of the primary factors involved in vehicle crashes. In 2011, speeding was a contributing factor in 30% of all fatal crashes and the loss of 9,994 lives. The estimated economic cost to society for speeding-related crashes is \$40.4 billion per year. Given the widespread occurrence of speeding and the high toll in injuries and lives lost in speed-related crashes, as well as the high economic costs of speed-related crashes, this is a safety issue that demands attention.

Given there has been so little progress in reducing the percentage of speeding-related fatalities over the last decade, it is appropriate to examine new approaches for addressing this problem. Recent research findings reveal important differences in driver types and speeding behaviors and provide an opportunity to develop new countermeasures and more targeted approaches to reduce speeding-related fatalities and injuries. The data collected in this study will provide NHTSA with important detailed information that will help to better define the nature of the speeding problem and assist in reducing speeding on our nation's highways. In support of its mission, NHTSA will use the findings from this survey for developing new speeding countermeasures that are better matched to specific types of speeding problems. This new information on driver types and countermeasures for speeding can help communities throughout the country to

enhance and improve their speed management programs. This information is focused on achieving the greatest benefit in decreasing crashes and resulting injuries and fatalities, and providing informational support to States, localities, and law enforcement agencies that will aid them in their efforts to reduce traffic crashes.

Description of the Likely Respondents (Including Estimated Number, and Proposed Frequency of Response to the Collection of Information)—After a thorough search for a State to participate in this project, an agreement with the State of Idaho was established to conduct this study. The survey respondents will be a random sample of drivers currently licensed and living in Idaho. The sample will be stratified by age, gender, and numbers of citations for speeding in the previous three years. The questionnaire will be mailed to respondents and also made available on-line. A final sample size of 3,200 drivers is projected for the survey mailing with a projected response rate of 50% (1,600 drivers). All respondents will be surveyed only once and participation in the survey is voluntary.

Estimate of the Total Annual Reporting and Recordkeeping Burden Resulting From the Collection of Information—The total estimated annual burden is approximately 560 hours for the survey. Based on cognitive testing of the paper and pencil survey (n = 9), it is estimated it will take approximately 21 minutes per respondent to complete the survey (1,600 respondents × 21 minutes each = 560 hours total). The survey would be fielded for a two-month period in 2014. The mailed survey packets would include a postage-paid return envelope for returning the completed questionnaires. Respondents will also have the option of completing the survey on-line. The mean hourly wage for all occupations in the State of Idaho is \$18.52. At 560 total responding hours for the survey, this would put the cost burden at approximately \$10,371.20. The respondents would receive a \$5.00 incentive for taking the survey. The respondents would not incur any reporting cost from the information collection beyond the time to respond to the information request and they would not incur any record keeping burden or record keeping cost from the information collection.

Authority: 44 U.S.C. 3506(c)(2)(A).

Issued on: May 3, 2013.

Jeff Michael,

Associate Administrator, Research and Program Development,

[FR Doc. 2013-10930 Filed 5-7-13; 8:45 am]

BILLING CODE 4910-59-P

DEPARTMENT OF TRANSPORTATION

National Highway Traffic Safety Administration

[Docket No. NHTSA-2013-0058]

Model Specifications for Breath Alcohol Ignition Interlock Devices (BAIDs)

AGENCY: National Highway Traffic Safety Administration (NHTSA), Department of Transportation (DOT).

ACTION: Notice.

SUMMARY: This notice revises the Model Specifications for Breath Alcohol Ignition Interlock Devices (BAIDs). The Model Specifications are guidelines for the performance and uniform testing of BAIDs. These devices are designed to prevent a driver from starting a motor vehicle when the driver's breath alcohol concentration (BrAC) is at or above a set alcohol level. Every State in the United States has enacted a law providing for the use of BAIDs as a sanction for drivers convicted of driving while intoxicated offenses. This notice revises the 1992 Model Specifications, to test BAIDs for conformance. These Model Specifications are based, in part, on input from interested parties during an open comment period. This notice also indicates that NHTSA will delay rendering a decision about the feasibility and timing of a Conforming Products List (CPL) until more information is available. Accordingly, NHTSA plans to conduct an assessment to determine whether establishing and maintaining a CPL is feasible, prior to rendering a decision.

DATES: *Effective Date:* This notice is effective May 8, 2014.

FOR FURTHER INFORMATION CONTACT: *For technical issues:* Ms. De Carlo Ciccel, Behavioral Research Division, NTI-131, National Highway Traffic Safety Administration, 1200 New Jersey Avenue SE., Washington, DC 20590; Telephone number: (202) 366-1694; Email: decarlo.ciccel@dot.gov. *For legal issues:* Ms. Jin Kim, Attorney-Advisor, Office of the Chief Counsel, NCC-113, National Highway Traffic Safety Administration, 1200 New Jersey Avenue SE., Washington, DC 20590; Telephone number: (202) 366-1834; Email: jin.kim@dot.gov.

SUPPLEMENTARY INFORMATION:

Table of Contents

- I. Background
 - A. 2006 Request for Comments
 - B. 2010 Proposed Model Specifications
- II. Comments Received in Response to 2010 Notice
 - A. General Comments
 - B. Overarching Issues
 - 1. Sensor Technology
 - 2. Removable Heads and Fixed Control Boxes
 - 3. Retests
 - 4. Alerts
 - 5. Emergency Override
 - 6. Calibration Stability and Service Interval
 - C. Technical Issues Relating to Particular Sections of the Model Specifications
 - 1. Terms Used in Model Specifications (Section B)
 - 2. General Provisions and Features of BAIIDs (Section C)
 - a. Ignition, Ignition Switch and Locking
 - b. Set point of .02 g/dL and minimum flow rate of 0.1 L/sec
 - c. Federal Drug Administration (FDA) Requirements
 - 3. BAIID Test Procedures (Section D)
 - a. General Test Conditions and Performance Requirements
 - i. Breath Sample Volume and Flow Rate
 - ii. Precision
 - iii. Terminology
 - iv. Readiness
 - b. Conformance Tests
 - Test 1—Precision and Accuracy
 - Test 2—Breath Sample Volume and Flow Rate
 - Test 3—Calibration Stability
 - Test 4—Input Power
 - Tests 5 and 6—Extreme Temperature and Humidity and Warm Up Time at -40°C
 - Test 7—Vibration
 - Test 8—Retest
 - Test 9—Tampering and Circumvention
 - Test 10—Restart of Stalled Motor Vehicle
 - Test 11—High Altitude
 - Test 12—Cigarette Smoke
 - Test 13—Acetone
 - Test 14—Emergency Override
 - Test 15—Radiofrequency Interference/Electromagnetic Interference
 - Test 16—Service Interval Display
 - Test 17—Data Integrity and Format
 - D. Other Comments Received Regarding the Model Specifications
 - 1. Dust Test
 - 2. Vehicle-Interlock Interface
 - 3. International Harmonization
 - 4. Ignition Interlock Program Guidelines
 - E. NHTSA Testing of BAIIDs and Conforming Products List (CPL)
 - F. Appendices to the 2010 Notice
- III. New Model Specifications
 - Model Specifications for Breath Alcohol Ignition Interlock Devices (BAIIDs)
 - Appendix A—Quality Assurance Template
 - Appendix B—Sample Format for Downloaded Data From the Interlock Data Logger

I. Background

In 1992, the National Highway Traffic Safety Administration (NHTSA) adopted and published Model

Specifications for Breath Alcohol Ignition Interlock Devices (BAIIDs). (57 FR 11772.) Ignition interlocks are alcohol breath-testing devices installed in motor vehicles that require the driver to provide an acceptable breath sample in order to start the engine. If the breath sample provided by the driver contains more than a predetermined alcohol concentration, the ignition interlock device prevents the vehicle from starting. Ignition interlocks also require drivers to provide breath samples periodically while the engine is running, to ensure that their alcohol concentration remain under the predetermined level.

Before NHTSA adopted the Model Specifications in 1992, a number of States enacted laws authorizing the use of “certified” BAIIDs. However, there was no single standard or test procedure among the States for certifying BAIIDs. Manufacturers of ignition interlock devices requested that the Federal Government develop and issue standards for certifying such devices rather than leaving the industry subject to numerous State standards and test requirements. After notice and comment, NHTSA adopted the Model Specifications for BAIIDs to provide a degree of consistency.

Since the Model Specifications were adopted in 1992, many States have incorporated them or some variation into their certification requirements. Persons required to use BAIIDs are generally under the direct supervision of a court or another State agency (e.g., Motor Vehicle Administration). All 50 States have enacted laws providing for the use of BAIIDs for impaired driving offenders. Currently, of these States, 18 mandate or highly incentivize the use of BAIIDs by all impaired driving offenders (including first-time offenders); an additional 20 States mandate the use of BAIIDs by repeat and/or high BAC offenders (at .15 or greater).

While many States have incorporated the Model Specifications to certify BAIIDs used by impaired driving offenders, there remains considerable variability among State certification requirements. Due to this variability and rapid technological advances in the industry, States and manufacturers of BAIIDs had requested that NHTSA update the Model Specifications. They also urged NHTSA to test the devices against the Model Specifications and maintain a Conforming Products List (CPL) of devices found to meet the Model Specifications.

A. 2006 Request for Comments

In preparation for the revision of the Model Specifications, NHTSA published two notices in the **Federal Register**. On February 15, 2006 (71 FR 8047), NHTSA published a request for comments, explaining that the agency intended to revise the 1992 Model Specifications and was interested in obtaining comments from interested parties in 13 specific areas. The areas included: Accuracy and precision requirements; sensor technology; sample size requirements; temperature extreme testing; radio frequency interference (RFI) or electromagnetic interference (EMI); circumvention testing; the vehicle-interlock interface; calibration stability; ready-to-use times; NHTSA testing; international harmonization; specifications for ignition interlock programs; and acceptance testing.

B. 2010 Proposed Model Specifications

In general, the comments to the 2006 notice were supportive of the agency's intent to revise the 1992 Model Specifications, but they noted that some adjustments were warranted to assure more consistency in the quality of equipment in use at that time. On October 6, 2010 (75 FR 61820), NHTSA published a separate notice containing proposed revisions to the 1992 Model Specifications. That notice addressed the 13 topics that had been listed in the **Federal Register** notice published in 2006. It also addressed additional issues that were raised in the comments responding to the 2006 notice, including: Set points; removable sensing heads or units; tampering testing; service interval; retests; among others.

II. Comments Received in Response to 2010 Notice

NHTSA received comments from 20 individuals and organizations in response to the 2010 notice, including five States (Iowa, Illinois, Oklahoma, Wisconsin and Colorado); nine BAIID manufacturers (Alcohol Countermeasure Systems (ACS), Alcohol Detection Systems (ADS), Consumer Safety Technology (CST), Draeger Safety Diagnostics, Guardian Interlock Systems, LifeSafer Interlock, National Interlock Systems, Omega Point Systems and Smart Start); one manufacturer of Evidential Breath Testing Devices (Intoximeters); one citizen; two coalitions/associations (American Association of Motor Vehicle Administrators (AAMVA) and the Coalition of Ignition Interlock Manufacturers (CIIM)); and two BAIID installers/providers (Ignition Interlock

Systems of Iowa (IISI) and Road Safety Technologies).

A. General Comments

Many of the comments were supportive of the proposed changes to the Model Specifications. However, a number of comments raised serious concerns. Many comments suggested that, despite NHTSA statements to the contrary, some aspects of the proposed Model Specifications seemed tantamount to program guidelines or design (and not performance) specifications. In addition, a number of comments suggested that NHTSA seemed "out of touch" with certain current State practices and technology, and the proposed Model Specifications seemed "inflexible" in some respects. These comments stressed that certain aspects of the proposed Model Specifications would negatively impact technical innovation and State programs. Other, more technical, issues were also raised.

NHTSA appreciated receiving the many candid and thoughtful comments submitted in response to the 2010 notice. The agency has considered them carefully and made a number of revisions to the Model Specifications as a result. In particular, the agency agrees that the Model Specifications should define performance criteria and not specify design features. The agency also agrees that some decisions are programmatic in nature and should not be included in these Model Specifications, which are intended to apply to the performance of BAIID units, not the manner in which States and local jurisdictions conduct their programs. The agency defers to the discretion of States and local jurisdictions regarding programmatic decisions and, as appropriate, seeks to incorporate flexibility in these Model Specifications, in an effort to support the programmatic decisions of States and local jurisdictions.

In this notice, the agency first discusses these overarching issues, which generated the greatest number of comments. Discussions about the more technical issues, which relate more directly to particular sections of the Model Specifications, follow.

Another topic that generated many comments related to the question of whether NHTSA should undertake the responsibility of evaluating ignition interlocks against the Model Specifications and publish a CPL of devices meeting those specifications. For reasons described in more detail later in this notice (Section II.E.), NHTSA will delay rendering a decision about the feasibility and timing of a CPL

until more information is available. NHTSA plans to conduct an assessment to determine whether establishing and maintaining a CPL is feasible, prior to rendering a decision.

B. Overarching Issues

1. Sensor Technology

The **Federal Register** notice published in 2006 indicated that the 1992 Model Specifications did not address the type of sensor technology that should be used to satisfy the performance requirements, and asked whether the Model Specifications should limit sensor technology to alcohol-specific sensors (such as fuel cell technology based on electrochemical oxidation of alcohol) or other emerging sensor technologies, or whether NHTSA should not specify the sensor technology and rely instead on performance requirements. (71 FR 8047.)

In the 2010 **Federal Register** notice, NHTSA stated that, while alcohol-specific sensor technologies have made great advances, the proposal would not limit the sensor technology used in the BAIIDs as long as the BAIID meets the performance requirements of the Model Specifications. In that notice, the agency expressed the belief that this approach would allow a wider variety of options, including the use of emerging technologies as they become available. (75 FR 61822.)

The agency received nine comments regarding this topic. The comments were overwhelmingly opposed to the agency's proposal not to specify or restrict sensor technology.

For example, Road Safety Technologies stated, "It is critical that the interlock device be as accurate as the technology can allow." (p. 1.) Similarly, LifeSafer asserted, "As jurisdictions have embraced and expanded their use of BAIID technology, they have demanded alcohol-specific sensor technology. [Interlocks that] are not alcohol-specific . . . tarnish the reputation of the industry . . . , [which] undermines interlock efficacy and creates lasting misperceptions." (p. 4–5.) AAMVA expressed its belief that "non-specific alcohol devices are prone to false positives and unwarranted lockouts, leading to a lower acceptance rate amongst drivers." (p. 1.) Colorado stated, "it is unfortunate that the proposed specifications do not seize the opportunity to move all our programs towards greater success, customer convenience, acceptance and satisfaction by requiring alcohol-specific technology." (p. 2.)

NHTSA agrees with the comments that the Model Specifications should

ensure that BAIIDs are as accurate as possible and that it is not desirable to accept devices that generate high levels of false positives. The agency is also persuaded by the comments that current technology has progressed sufficiently to expect that BAIIDs should be able to distinguish between alcohol and other chemicals or substances. Accordingly, the Model Specifications provide in Test 12 and 13 that BAIIDs should distinguish between alcohol and other specific substances, such as acetone and cigarette smoke, which are commonly found on breath. BAIIDs that are unable to distinguish these substances from alcohol will not meet the Model Specifications.

Some comments went further and urged the agency to require fuel cell technology and/or ban the use of semiconductors. NHTSA declines to take this further step, since requiring one particular technology or prohibiting another would be equivalent to setting a design (and not a performance) standard.

2. Removable Heads and Fixed Control Boxes

In the 2010 notice, NHTSA proposed that the sensing unit should not be removable because it can more easily be damaged or mishandled, leading to frequent repairs and increased cost. Accordingly, NHTSA proposed to test only BAIIDs without removable sensing heads or units, though the agency clarified that it does not object to BAIIDs with a removable mouthpiece. (75 FR 61823.)

This aspect of the proposal generated a large number of comments in strong opposition. For example, Consumer Safety Technology (CST) stated that it found "the provision for the prohibition of removal of the sensing head to be inexplicable and unjustified." (p. 1.) According to CST, "All ignition interlocks have removable handsets. This provision would make every interlock noncompliant." (p. 1.) Road Safety Technologies pointed out that, "In practice, many interlock providers now recommend to their customers that the sensing head be taken inside to keep it warm or cool in inclement weather [or] to prevent the vehicle from being stolen." (p. 1.)

Guardian asserted that placing a restriction on removable heads would be "design restrictive." (p. 2.) Guardian continued, "There should not be any restriction of design imposed by NHTSA. If a BAIID can meet . . . and successfully comply with the test requirements, the design of the device itself should be left to the manufacturer and the marketplace." (p. 2.)

A number of State comments also opposed the restriction. According to Illinois, "Currently, [it] has seven vendors whose BAIIDs are certified by the Secretary of State, all of which use BAIIDs that have a removable sensing head . . . The Illinois Secretary of State has administered a BAIID program since 1995 and not once during the past 15 years has the Secretary received any complaints from BAIID users, installers or vendors that the BAIID has been damaged or mishandled as a result of removal of the sensing head." (p. 1) Objections were received also from other BAIID manufacturers, the Coalition of Ignition Interlock Manufacturers (CIIM), interlock providers, Iowa and Oklahoma. Wisconsin did not oppose the restriction, but urged NHTSA to specify that the sensing head be removable only by the service provider; not the customer.

NHTSA has reconsidered this aspect of its proposal based on the comments. The agency acknowledges that prohibiting removable sensing heads may constitute a design (and not a performance) standard and may unintentionally stifle new technologies. In addition, it could interfere with current State practices. Accordingly, the revised Model Specifications do not state a preference with regard to whether BAIIDs should have removable sensing heads. However, a provision has been added to the General Provisions and Features section of the Model Specifications (Section C), providing that if the BAIID has a removable sensing head, the vehicle should not start without use of the sensing head.

To ensure performance, BAIIDs should be tested as a unit under appropriate tests, as provided in the Model Specifications, including Tests 5 and 6, under extreme temperature conditions. If a BAIID includes removable components, such components should be tested in accordance with the manufacturer's user instructions.

NHTSA has not adopted the recommendation from Wisconsin to specify that only service providers may remove the sensing heads. We believe that such a restriction is a programmatic decision and does not relate to the performance of BAIID units.

NHTSA also proposed that BAIID memory should be located in a fixed control box. This aspect of the proposal was intended to prevent damage to the BAIID memory.

Draeger agreed with this aspect of the proposal, stating that it will ensure data integrity. However, most comments opposed this part of the proposal. For

example, National Interlock stated, "Current interlock technology stores data in the sampling head, the control box or both. Regardless of the memory storage location, the data is preserved in memory for download . . . We believe that it is not necessary for NHTSA to mandate that the memory storage be in a fixed control box." (p. 2.) Similar comments were received from Smart Start. Guardian added that this proposed restriction would limit "innovation in product development and technological advancement" (p. 5.) and interfere with current State practices. Comments in opposition were received also from Iowa, Colorado, Ignition Interlock Systems of Iowa (IISI) and Alcohol Detection Systems (ADS). Oklahoma requested clarification of the terms "memory", "fixed" and "control box." (p. 2.)

NHTSA has carefully considered these comments. The agency wishes to ensure the integrity of the data. However, the agency does not wish to specify design features or unnecessarily stifle new technologies. It also does not wish to interfere with current State practices. Accordingly, the revised Model Specifications have been revised to remove the specification that the memory be contained in a fixed control box. The interlock data logger of each BAIID should be tested, wherever it is maintained under the manufacturer's design.

3. Retests

As stated earlier, ignition interlocks test drivers for alcohol before they can start their vehicle's engine. Interlocks also retest drivers for alcohol periodically while the engine is running. In the 2010 notice, the agency stated that "NHTSA does not intend that retests be conducted while the vehicle is moving, but rather while the engine is running with the vehicle stopped in a safe location on the side of the road." (75 Fed. Reg. 61824.)

Many of the comments objected to this statement. For example, LifeSafer asserted, "All interlock vendors advise the client/user to pull off the road in a 'safe' place to take the retest. The practical reality is 99% of the 500,000-1,000,000 plus retests per day are not taken in this fashion, but rather safely delivered while the vehicle is in motion with little or minimal driver distraction." (p. 3-4.) Some of the comments asked NHTSA for evidence demonstrating that drivers are at increased risk when taking a retest.

Colorado asserted that, while requiring that a retest be conducted while "stopped in a safe location . . . may appear to serve public safety,

current interlock devices are designed to be so unobtrusive that they are easier to manipulate [than] a vehicle's sound system, GPS or climate control system." Moreover, Colorado argued that "there are too many traffic situations that make pulling over less safe, even with an extended period within which to deliver the sample" such as "long mountain tunnels" or "other congested environments with tight lanes and limited shoulders." (p. 2.)

NHTSA is very concerned about distracted driving and the risks that distraction can pose for drivers and other road users. However, the agency acknowledges that it currently has little data regarding crashes involving drivers taking interlock retests. We will continue to monitor the data and respond to any new trends that are identified.

Draeger pointed out, in its comments, that the manner in which retests should be conducted "is a requirement for the driver and is not directly related to the BAIID itself or its design and functionality." (p. 3.) NHTSA agrees with this assessment. Accordingly, while the agency strongly urges drivers to conduct retests when and where it is safe to do so, the Model Specifications no longer specify how retests should be conducted. This is more appropriately a function for States and local jurisdictions. The Model Specifications have been revised to remove this reference.

4. Alerts

In response to the 2006 notice, one commenter suggested that an interlock-specific tone (other than a honking horn) be used to alert outsiders to BAIID violations. In the 2010 notice, NHTSA responded that it does not believe that audible sounds or lights to alert the public to interlock violations are necessary. (75 FR 61826.) The agency did not include the suggestion in its proposal.

The comments in response to this aspect of the 2010 notice were mixed. Consumer Safety Technology (CST) agreed that "the honking of the vehicle horn is disruptive enough to attract attention to a driver in violation of a . . . retest." (p. 9.) Smart Start did not take a position about the horn, but expressed its belief that "it . . . promotes unsafe driving when lights are flashing on and off to alert the public." (p. 5.)

IISI requested the evidence that NHTSA relied on to reach the conclusion that audible sounds or lights are not necessary to alert the public to interlock violations. According to IISI, "Our technicians, who collectively meet

with hundreds of IID users every day, would say that the threat of the honking horn on a failed or ignored random retest is the single greatest deterrent to the IID user's attempting to have another person pass a test so the impaired driver can sneak home undetected." (p. 1.)

Similarly, ACS asserted that NHTSA's position "is contrary to 25 years of experience with alcohol interlock programs in which audible sounds and (to a lesser extent) visual indications are required by jurisdictional authorities as both a warning to others and a deterrent to the driver to ignore a retest requirement." (p. 22.)

As stated above with regard to retests, NHTSA is concerned about distracted driving and believes that certain types of alerts may serve as a distraction to drivers. On the other hand, the agency acknowledges that alerts may play an important role in creating deterrence for drivers in violation of a retest, and in drawing the attention of other drivers on the offending motor vehicle.

More importantly, upon reconsideration, NHTSA has reached the conclusion that decisions about the types of alerts that may be required and/or permitted are programmatic in nature, and should be at the discretion of States and local jurisdictions. Accordingly, the Model Specifications do not address the use of alerts. Such decisions may vary from State to State, and the options that vendors choose to offer ultimately will be dictated through the marketplace.

5. Emergency Override

Some comments received in response to the 2006 notice stated that an emergency override is a useful feature. In the 2010 notice, NHTSA declined to propose that BAIIDs must include this feature (i.e., the ability to start the vehicle without a breath test) in order to meet the Model Specifications. However, should a BAIID be equipped with an emergency override feature, NHTSA proposed to test the feature, but indicated that it could start the vehicle only once. The 2010 proposal provided that whenever the override feature was activated, the BAIID must indicate the need for service and record the use of the emergency override. No additional emergency overrides should be allowed during the lifetime of the BAIID installation. The agency proposed to test this feature. NHTSA also proposed that this emergency override feature have a default to prevent an override from being used when the BAIID malfunctions or fails. (75 FR 61825-26.)

The comments received in response to this portion of the proposal were varied. CST argued that "emergency overrides

should not be allowed as they essentially allow a drunk driver one free pass to drive drunk." (p. 5.) ACS and LifeSafer both agreed that emergency overrides should be allowed, but disagreed that an override should be permitted only once during the lifetime of the installation. ACS pointed out that not all jurisdictions permit the use of an emergency override, but of those that do, "the restriction on use is typically once per monitoring period (service interval), rather than once per installation (program duration)." (p. 21.) LifeSafer also disagreed that the override feature should not function when the BAIID malfunctions or fails. In fact, LifeSafer asserted, "From a service standpoint, this is exactly when an override should be allowed." (p. 14.)

NHTSA believes the decision whether to permit the use of an emergency override feature is programmatic in nature and should be left to the discretion of States and local jurisdictions. Accordingly, as proposed, the Model Specifications do not address whether BAIIDs should be equipped with an emergency override feature. The Model Specifications have been modified to remove specifications related to emergency overrides and they remove the proposed override test.

6. Calibration Stability and Service Interval

In the 2006 notice, NHTSA asked, "Is the duration of calibration stability testing sufficient? Should ignition interlocks be required to hold their calibration for a longer period of time, thereby requiring less frequent calibration checks?" (71 FR 8048.)

In the agency's 2010 notice, in response to comments received, NHTSA explained that, "The 1992 Model Specifications called for calibration stability for 7 days beyond the manufacturer's designated calibration stability period of 30, 45, or 60 days. For example, if the manufacturer required that the calibration of BAIIDs be checked after 60 days, the BAIID would need to hold the calibration for 67 days." (75 FR 61824.)

NHTSA proposed that BAIIDs "must hold calibration for a minimum 30 days plus the 7-day lockout countdown described previously (i.e., 37 days) in order to conform to the Model Specifications." NHTSA explained that, "Although some manufacturers have BAIIDs that are claimed to hold calibration for a longer time period, NHTSA proposes to test the calibration stability at 37 days (i.e., 30 days plus the 7-day lockout countdown) . . ." (75 FR 61824.)

NHTSA also proposed in the 2010 notice to add service interval requirements of "not greater than 30 days, plus a 7-day lockout countdown." (75 FR 61824.)

More than half of the comments addressed this issue. All of the comments objected to this aspect of the agency's proposal. Iowa described it as "a step backwards" (p. 1); Wisconsin said it is "overly restrictive" (p. 2); CST called it "an inexplicable regression in standards that will result in increased costs to the participant and consequently result in a marked reduction in participation in state interlock programs." (p. 3.)

CIIM explained that "This is an area where technology has significantly improved since the last time NHTSA asked for comments. Most devices can go 2 or 3 months without needing to have its calibration checked." (p. 2.) Accordingly, CIIM suggested a longer calibration period. ACS sought to clarify that calibration stability and service intervals are not the same. "Calibration stability is a performance criterion of the BAIID to be included in Model Specifications; whereas, service interval is programmable as a function of the performance of a participant and is a program matter." (p. 13.) In addition, National Interlock pointed out that, "The proposed [Model Specifications] would appear to prohibit specialized programming of the BAIID device or software to meet the specific requirements of jurisdictions." (p. 2.)

NHTSA agrees with the comments that current technology now permits ignition interlocks to maintain stable calibration for longer periods of time. The Model Specifications continue to provide for a *minimum* calibration stability period of 37 days (30 days plus the 7-day lockout countdown) and for BAIIDs to be tested (under Test 3) to determine conformance with this period. This minimum calibration period should provide some consistency and the 30-day period would allow results of this test to be available quickly. In addition, in recognition of recent technological advances and current practice in the field, the Model Specifications provide manufacturers with the opportunity to demonstrate that their BAIIDs can maintain their calibration stability for longer periods of time, by providing for testing of BAIIDs also at 60 days, 90 days and 180 days, plus 7 days.

As suggested in the comments, NHTSA agrees that it is appropriate to decouple the period of calibration stability and the service interval. States and local jurisdictions make decisions about service intervals based on a

number of different factors, including the need to supervise some offenders more closely or the desirability of providing an incentive (and permitting a longer service interval) for offenders who have demonstrated compliance with their sentence. In addition, NHTSA recognizes that BAIIDs can be programmed to vary the service interval, based on the circumstances in each case. Accordingly, the Model Specifications do not provide for a specific service interval period. Rather, the agency defers to States and local jurisdictions to determine the service intervals they believe are appropriate.

However, in one important respect, these two periods are very much related. States and local jurisdictions are reminded that, if they choose to use service intervals that are longer than 37 days, the BAIIDs they select should be capable of maintaining a stable calibration for the requisite period of time.

Smart Start suggested that a maximum number of violation points should be defined and allowed, and recommended 5. (p. 4.) NHTSA believes that, like the service interval, this is a programmatic issue and should be set by States and local jurisdictions. Accordingly, the Model Specifications have not been modified to specify a maximum number of violation points.

C. Technical Issues Relating to Particular Sections of the Model Specifications

1. Terms Used in Model Specifications (Section B)

The 2010 notice contained proposed definitions for 14 terms. ACS took issue with the proposed definition for the term, "Service interval", which the notice proposed to define as "The maximum time period that a BAIID may be used without maintenance or data download, after which the ignition must lock." ACS pointed out that, "Service interval is not a device performance criteria; it is a program guideline, which is the time period during which the participant may drive between monitoring appointments, based upon the jurisdiction restrictions and the compliance of the participant with program conditions." (p. 26.) NHTSA agrees with this point and has changed the definition of this term accordingly.

Oklahoma suggested that the word "pertinent" should be removed from the proposed definition of "Interlock Data Logger—A device within a BAIID that records all pertinent events, dates and times during the period of installation and use of a BAIID." NHTSA has made this modification, as well, to avoid

limiting the information that is recorded on the interlock data logger.

Other comments supported the proposed definitions.

2. General Provisions and Features of BAIIDs (Section C)

The 2010 notice proposed that BAIIDs must meet certain requirements in order to conform to the Model Specifications, including:

- Pass conformance tests 1 through 16
- Not compromise normal functions of the vehicle
- Not have a removable sensing head
- Contain memory in a fixed control box
- Have tamper proof seals
- Capable of locking out a specified BrAC at a set point of .02 g/dL with a minimum flow rate of 0.1 L/sec
 - Bypass or disable a remote start device, if installed on a vehicle
 - Clear instructions to the driver
 - An interlock data logger that will record all start attempts and outcomes
 - Track all changes to the metrological software

In addition, the notice proposed that manufacturers of BAIIDs must submit:

- The operator's manual and other documentation
- The quality assurance plan (QAP)
- A self-certification that the manufacturer meets the requirements of the U.S. Department of Health and Human Services, Public Health Service, Food and Drug Administration (FDA) Good Manufacturing Practices

regulations for devices used for medical purposes (21 CFR Part 820) and that the device's label meets the requirements contained in FDA's Labeling regulations for devices used for medical purposes (21 CFR 809.10).

As discussed in detail previously, the agency received many comments concerning the removable sensing head and the fixed control box, and modifications have been made to the Model Specifications in response to these comments.

The comments concurred with most of the other requirements and features. However, comments were raised regarding some of these provisions.

a. *Ignition, Ignition Switch and Locking*—Oklahoma (p. 1) and ACS (e.g., p. 28–30) pointed out that the 2010 notice included some incorrect references to "ignition", "ignition switch" and "locking" of the ignition. These references have been corrected.

b. *Set point of 0.02 g/dL and minimum flow rate of 0.1 L/sec*—In the 2006 notice, NHTSA asked whether the current set point of 0.025 grams of alcohol per 210 Liters of air (g/dL) is appropriate or whether it should be

changed. (71 FR 8047.) The comments received in response to the 2006 notice were varied, including that the 0.025 g/dL level should not be changed, that the set point should be more stringent and that the agency should establish a set point of 0.025 g/dL for adults and 0.02 g/dL for minors.

In response to these comments, in the 2010 notice, NHTSA proposed lowering the set point from 0.025 g/dL to 0.02 g/dL. (75 Fed. Reg. 61822.) Comments received in response to this aspect of the 2010 proposal were mixed again. For example, AAMVA questioned the need to lower the set point and suggested that a lower level could lead to unwarranted lockouts. (p. 2.) IISI asked whether this change was being proposed for the purpose of enforcing "abstinence from alcohol consumption" as opposed to ensuring "highway safety." (p. 3.) Some comments, including those from Smart Start and Wisconsin, expressed support for the proposed change. LifeSafer supported the change and suggested that BAIIDs should be required to provide and record a "warn" when they register at 0.01 g/dL and above. (p. 5.)

The 2010 notice proposed a minimum flow rate of 0.1 Liters per second (L/sec). (75 FR 61823.) ACS suggested it should be set no lower than 0.2 L/sec. (p. 9.)

The agency is not attempting to influence program purposes, but rather is seeking simply to define the Model Specifications to test the precision and accuracy of BAIID devices. We recognize that State BrAC levels are not uniform. Most are set at 0.02 g/dL, but others are set at other (generally higher) levels. NHTSA continues to believe that 0.02 g/dL is an appropriate set point to use for the testing of BAIIDs under these Model Specifications. This set point will ensure accuracy for the States, whether they are using 0.02 g/dL or a higher level. That choice is still each State's to make.

In addition, the change from 0.25 g/dL to 0.20 g/dL will align the BAIID Model Specifications with NHTSA's other Model Specifications, which pertain to evidential breath testing instruments (EBTs), calibrating units and alcohol screening devices. Moreover, NHTSA continues to believe that the technology is available for BAIIDs to achieve and maintain a set point at this level. Accordingly, this portion of the proposed revision is adopted without change. The recommendation to require a "warning" at the 0.01 g/dL level has not been adopted, since practices vary from State to State.

NHTSA agrees with ACS's comment regarding the flow rate. In fact, the 0.1

minimum flow rate included in the General Conditions and Features section of the notice was an unintentional error on the agency's part. The General Test Conditions section of the 2010 notice stated that unless specified otherwise in a particular conformance test, each test would use an ambient flow rate of 0.3 L/sec. Consistent with this provision, the General Conditions and Features section should have indicated that BAIIDs be tested with a flow rate of 0.3 L/sec. The Model Specifications have been modified accordingly.

In accordance with the revised Model Specifications, BAIIDs should record and maintain a record of all breath samples provided.

c. Federal Drug Administration (FDA) Requirements—In the 2010 notice, in response to comments received regarding the 2006 notice, NHTSA proposed that manufacturers must submit a self-certification that the manufacturer meets the requirements of the FDA Good Manufacturing Practices (GMP) regulations for devices used for medical purposes (21 CFR Part 820) and that the device's label meets the requirements contained in FDA's Labeling regulations for devices used for medical purposes (21 CFR 809.10).

Some comments supported this aspect of the proposal. CST said that holding interlock providers to this "more rigorous" standard was "positive." (p. 3.) ACS agreed, in principle, with requiring that interlock manufacturers comply with FDA's GMP requirements, but asked how the requirement will be enforced? ACS did not believe a self-certification process would be adequate. (p. 24.)

However, most comments strongly objected to these requirements. The comments from National Interlock were representative. They stated, "The BAIID is not a medical device and is not intended to be used for medical purposes. The application of these regulations will place tremendous cost and burden on the manufacturers of BAIIDs, with the possibility of raising costs of programs beyond what is reasonable for a driver to pay. This could result in a higher incidence of individuals driving without a license, and without a BAIID, which would be contrary to federal and state policy to increase the use of BAIIDs as an alcohol countermeasure." (p. 2.) Draeger added, "Breath alcohol test systems intended solely for forensic (law enforcement) purposes are currently exempt from . . . premarket notification and other FDA requirements. . . . BAIID devices intended for use by law enforcement are therefore exempted by the FDA from GMP compliance. . . . We recommend

that NHTSA defer to the FDA's judgment and guidance on this matter. . . ." (p. 4.)

It is NHTSA's understanding that the FDA Good Manufacturing Practices (GMP) regulations (21 CFR Part 820) apply to devices used for medical purposes. While the FDA has applied these regulations to some alcohol devices, such as screeners that are used for medical purposes, the FDA has not exercised jurisdiction over instruments used for other purposes, such as Evidential Breath Testing Instruments (EBTs), which are used for law enforcement purposes. Similarly, it is our understanding that, to date, the FDA has not exercised jurisdiction over BAIIDs. In addition, NHTSA has not, at this time, reached a decision about whether it will develop a CPL. Accordingly, manufacturers of BAIIDs must comply with any applicable FDA requirements, but NHTSA has removed the reference in the Model Specifications to submission of a self-certification of compliance with the FDA regulations.

Smart Start (p. 6) and Guardian (p. 5) suggested that, if quality assurance requirements are to be imposed, NHTSA should consider using ISO standards instead of the FDA requirements. While manufacturers may adopt the ISO standards if they wish to do so, the agency does not believe there is sufficient justification to add this as a condition in the Model Specification for all manufacturers of BAIIDs.

3. BAIID Test Procedures (Section D)

The 2010 notice proposed to include 17 separate tests in the Model Specifications. It also proposed a number of general test conditions, pertaining to the number of trials, ambient temperature, ambient atmospheric pressure, sample parameters and simulated breath samples. In addition, the notice proposed a number of performance requirements relating to tests at 0.000 g/dL, 0.008 g/dL and 0.032 g/dL. The notice also proposed that a BAIID must be ready for use one minute after it is turned on and it must be ready for a second test within one minute of a preceding test.

a. General Test Conditions and Performance Requirements

The 2010 notice proposed that unless specified otherwise under a particular conformance test, BAIIDs must meet a number of performance conditions under all tests conducted.

i. Breath Sample Volume and Flow Rate

In the 2006 notice, NHTSA indicated that the 1992 Model Specifications set the minimum breath sampling size at 1.5 liters and asked whether NHTSA should consider lowering the minimum breath sampling size requirement. (71 FR 8047–48.) Most comments received in response to that notice advocated lowering the minimum sampling size to either 1.2 L or 1.0 L. In the 2010 notice, in response to these comments, NHTSA proposed lowering the minimum sampling size from 1.5 L to 1.2 L. Unless specified otherwise in the particular conformance test, BAIIDs should be tested at a volume of 1.2 liters and an ambient flow rate of 0.3L/sec. (75 FR 61822, 61828.) Breath sample volume relates to how much a person blows into a BAIID. Flow rate is the intensity of the blow.

The comments received in response to the 2010 notice were mixed. CST questioned the wisdom of lowering the minimum breath sampling size to 1.2 L, claiming that it could reduce the quality of the breath sample. (p. 3.) Wisconsin expressed a preference for retaining the size at 1.5 L (p. 2), as did Draeger, with allowances for reductions to 1.2 L upon medical recommendation (p. 4). On the other hand, Smart Start, ACS and LifeSafer all supported the reduction. Smart Start expressed the belief that this change would permit more individuals to participate in interlock programs. (p. 2.) ACS recommended that minimum back pressure also be included. (p. 8.)

NHTSA agrees that lowering the minimum breath sampling size will make the BAIID available to a larger population of users, including individuals with smaller or diminished lung capacity. No evidence was submitted to indicate that the reduced volume will diminish the integrity of breath samples. Accordingly, this element of the Model Specifications is adopted without change. If a State wishes to set its minimum breath sampling size at 1.5 L and permit a 1.2 L level upon a medical recommendation, the Model Specifications will be able to support them in that decision. The ambient flow rate will remain at 0.3 L/sec. The agency believes that the other criteria included in the Model Specifications, provide sufficient safeguards against circumvention, without the need to address back pressure as well. Accordingly, a back pressure test has not been added.

ii. Precision

The 2010 notice stated that BAIIDs must experience no ignition locks in 20

trials at 0.000 g/dL (grams of alcohol/210 liters of air); not more than one ignition lock in 20 trials at 0.008 g/dL; and not more than one ignition unlock in 20 trials at 0.032 g/dL. (75 Fed. Reg. 61828.) These performance requirements represented an increase from 90 percent to 95 percent compliance at the 0.008 and 0.032 levels and 100 percent at 0.000.

Oklahoma suggested that no ignition "locks" should be permitted in 20 trials at both the 0.000 and 0.008 levels and no ignition "unlocks" should be permitted in 20 trials at the 0.032 level. (p. 3.) Wisconsin also recommended 100% conformance at all levels. (p. 2.) Smart Start asserted that the difference between 100% and 95% "does not matter." Some changes in accuracy and precision "potentially [add] costs to the BAID and [have] no real world added benefit." (p. 1.) No other comments addressed this issue. In these revised Model Specifications, NHTSA has sought to strike a balance between the capabilities of the latest technology, the variability among various products currently on the market, as well as costs and other factors. Accordingly, as proposed in the 2010 notice, the performance requirements have been increased in these revised Model Specifications at the 0.000 level, by providing that the vehicle must not be prevented from starting even once during 20 trials. However, the Model Specifications do not require 100 percent compliance at all levels. They provide that the vehicle must not be prevented from starting more than once during 20 trials at the 0.008 level and must not start more than once during 20 trials at the 0.032 level. (See Section D of the Model Specifications, Performance Requirements.)

iii. Terminology

ACS and Oklahoma noted that the terms "locked" and "unlocked", while easily understood, are technically inaccurate. They suggest that they be replaced. The agency has made adjustments in these revised Model Specifications to avoid use of these terms, such as by describing whether or not the vehicle will start, instead of using the terms "locked" and "unlocked".

iv. Readiness

The 1992 model specifications provided for a wait time of up to 5 minutes for a driver to take a breath test. A common complaint by users of BAIDs was the long wait times for breath tests by BAID users. Comments to the 2006 notice indicated that, with improved technology, faster ready-to-

use times were achievable, even in extreme low temperatures because BAIDs now have quick start capabilities.

The 2010 notice proposed that, unless specified otherwise in a particular test, BAIDs must be ready for use within one minute after they are turned on and ready for a second test within one minute of a preceding test. (75 Fed. Reg. 61824.) A number of comments expressed concern that the proposed change was too extreme. ACS pointed out that, if the BrAC is at or above the set point, the BAID will enter into a lock out period of 3–5 minutes. ACS stated, "The examiner must request special parameter settings if a one minute retest period is required." (p. 29.) LifeSafer made a similar comment, suggesting that 90 seconds should be allowed "to completely purge the prior alcohol-laden sample." (p. 15.) NHTSA has decided to adopt a compromise readiness time period of 3 minutes as the performance level in the Model Specifications, which the agency believes is appropriate and achievable, based on current practices and the current state of technology. NHTSA has revised the Performance Requirements in Section D of the Model Specifications to provide for this change.

No other comments were received objecting to the General Test Conditions or Performance Requirements.

b. Conformance Tests

The 2010 notice proposed 17 separate conformance tests regarding the performance of BAIDs. Some of the tests were supported by the comments. Questions, objections and suggestions were raised regarding others. Each test, the comments that it generated and the agency's responses are discussed in detail below.

Test 1—Precision and Accuracy

As explained in the 2010 notice, "accuracy" is the degree to which a BAID measures the BrAC correctly. For example, for a BAID to be accurate, a breath sample with no alcohol present (0.000 g/dL) must not prevent the vehicle from starting. "Precision" is the degree to which that same measure can be repeated. In the previous example, for the BAID to be precise, that same alcohol free breath sample should not prevent the vehicle from starting consistently over time. (75 FR 61822.)

In the 2010 notice, NHTSA proposed testing BAIDs at ± 0.012 g/dL above and below the set point of 0.02 g/dL, i.e., at 0.032 g/dL and 0.008 g/dL. (75 Fed. Reg. 61822.) Wisconsin suggested that testing should be carried out at ± 25 percent so that tests would be conducted at 0.015

g/dL rather than 0.008 g/dL and 0.025 g/dL rather than 0.032 g/dL. (p. 2.) All other comments either supported or did not object to the proposed levels. As explained in the 2010 notice, NHTSA arrived at these proposed levels by using standard statistical techniques for small samples. (75 Fed. Reg. 61822.) The ± 0.012 interval corresponds to a 2 sigma requirement for compliance. The levels proposed in the 2010 notice are adopted without change.

ACS suggested that the BAID should record the measured BrAC value from the data log to conduct statistical analysis. (p. 29.) Draeger proposed adding a result requirement to each test point. (p. 4.) The Model Specifications do not require a numerical readout. They require only that the BAID functions properly at each appropriate BrAC, by preventing or permitting a vehicle to start, as appropriate. BAID manufacturers may offer a feature that provides a numerical readout, if they choose to do so. However, the Model Specifications do not specify that such a feature be offered and do not specify a test for that particular function.

Test 2—Breath Sample Volume and Flow Rate

As described above, the General Test Conditions provide that, unless specified otherwise in a particular conformance test, all tests will be conducted using a volume of 1.2 liters and a flow rate of 0.3 L/sec. The purpose of Test 2 is to evaluate the performance of BAIDs under different breath sample volumes and flow rates. Tests 2a and 2b are designed to test the amount (volume) of air blown into the BAID, using a smaller and a larger sample volume (1.0 and 1.5 liters, respectively). Tests 2c and 2d are designed to test the intensity (flow rate) of the blow, using a slower and a faster flow rate (0.1 and 0.7 L/sec, respectively).

The 2010 notice proposed that BAIDs should prevent a vehicle from starting when the sample volume is 1.0 liters and permit the vehicle to start with a sample volume of 1.5 liters. (75 FR 61828.) These elements of Tests 2a and 2b are adopted without change.

The 2010 notice proposed that BAIDs should permit the vehicle to start using both flow rates. (75 FR 61828.) As mentioned earlier in this notice in Section II.C.2.b., ACS commented that the flow rate should be set no lower than 0.2 L/sec (p. 9), and the agency agrees. Consistent with this change, the Model Specifications are revised to provide that BAIDs should prevent a vehicle from starting when the flow rate is 0.1 L/sec and it should permit the

vehicle to start with a flow rate of 0.7 L/sec.

Test 3—Calibration Stability

These issues are discussed fully in Section II.B.6. above. In response to comments received, the Model Specifications continue to provide for a minimum calibration stability period of 37 days (30 days plus the 7-day lockout countdown) and BAIIDs should be tested (under Test 3) to determine conformance with this period. In addition, the Model Specifications provide manufacturers with the opportunity to demonstrate that their BAIIDs can maintain their calibration stability for longer periods of time, by providing for testing of BAIIDs also at 60 days, 90 days and 180 days, plus 7 days.

Test 4—Input Power

No comments were received regarding this proposed test. It is adopted without change.

Tests 5 and 6—Extreme Temperature and Humidity and Warm Up Time at -40°C

The 1992 Model Specifications called for testing at -40°C , -20°C , $+70^{\circ}\text{C}$ and $+85^{\circ}\text{C}$, but allowed for the removability of the alcohol sensing unit so that it may be kept at an artificial temperature when the vehicle may be subject to extremely cold or hot temperatures. In its 2006 notice, NHTSA asked whether this approach to extreme temperature testing seemed sufficient or whether it should be more stringent. (71 Fed. Reg. 8048.)

The agency received a variety of comments in response to the 2006 notice and, in 2010, proposed to retain the current extreme temperature tests at -40°C and $+85^{\circ}\text{C}$, believing it to be reasonably representative of the environments encountered in the United States. In addition, NHTSA proposed to conduct additional high temperature tests for components of the BAIID installed in the passenger compartment (at $+49^{\circ}\text{C}$) and in the engine compartment (at $+85^{\circ}\text{C}$), and to specify the humidity level for these high temperature tests. The agency proposed to discontinue the tests at -20°C and $+70^{\circ}\text{C}$, because the agency's experience indicated that testing at the extreme temperatures is sufficient. (75 FR 61823.)

NHTSA also proposed a warm up test in the 2010 notice to ensure that BAIIDs are ready to test and ready for retest within 3 minutes under extreme temperature conditions, at -40°C . (75 FR 61824.)

Draeger suggested that a warm-up time of up to 3 minutes at 9V and -40°C is overly severe, and proposed that the test be changed to require a warm-up time of up to 3 minutes at 9V and -20°C , but most comments supported the range that NHTSA proposed in the notice. (p. 5.)

Wisconsin applauded NHTSA's proposed adoption of tests at extreme temperatures, stating that "this will more effectively simulate BAIID operation in cold-weather climates. (p. 2.) ACS agreed that the proposed extreme temperature testing at -40°C and $+85^{\circ}\text{C}$ should adequately address the needs of the environmental tests for the U.S. ACS disagreed that the -20°C and $+70^{\circ}\text{C}$ tests should be discontinued, asserting that these temperatures provide different stress levels on devices and that Tests 5 and 6 should be conducted under all of these conditions, and at $+22^{\circ}\text{C}$, as well. (p. 9, 31.) Smart Start also suggested that the intermediate temperature tests should be retained. (p. 2.) LifeSafer urged the agency to harmonize the extreme temperature tests with the CENELEC (the European standard), at least on the high-side. (p. 7–8.)

NHTSA notes that the purpose of Tests 5 and 6 is to determine the BAIIDs' ability to perform at extreme temperatures and humidity. The temperatures that NHTSA included in the proposed Model Specifications are adopted without change, since they accurately represent extreme temperatures experienced in the United States. Other tests contained in the Model Specifications, including Tests 1–4 and others, should be performed at ambient temperatures. Accordingly, the agency believes intermediate temperatures need not be included under Tests 5 and 6.

Wisconsin recommended that the procedures used when testing at extreme temperatures must ensure that measurements are taken when the device is at the prescribed temperature and humidity and has not been allowed to vary. (p. 3.) NHTSA agrees with this comment. Steps should be taken during testing to prevent temperature and humidity drift, such as by testing BAIID devices in a temperature chamber.

A number of comments objected specifically to the proposed requirements regarding readiness for retest at various temperatures. ACS asserted that the requirements are overly simplistic, requiring that BAIIDs are ready for retest within three minutes at -40°C , and one minute at -39°C . (p. 15.) Smart Start recommended that NHTSA consider adopting the CENELEC standard regarding this

requirement, which provides that devices are to be tested at an ambient temperature of -40°C and $+85^{\circ}\text{C}$ with no time limit; at -20°C within 3 minutes and at -5°C within 90 seconds. (p. 4.)

Similarly, LifeSafer sought clarification regarding the readiness requirements for this test and others, noting that the various tests seem to require that devices need to be ready for retest within one minute, three minutes, five minutes or other periods of time. According to LifeSafer, retest sequences are typically 5–6 minutes before a Refused Violation is recorded. Imposing a 90 second wait between tests will allow a user three attempts to pass the retest. LifeSafer suggested that after a fail, a 90 second (versus a 60 second) interval between test attempts will produce a more precise result and is a reasonable period to require the user to wait after failing a test. (p. 11–12.)

NHTSA acknowledges that the variety of different wait times contained in the Model Specifications could cause confusion and has decided they are not warranted. Upon further review, the agency finds that it is preferable to establish more consistency in the readiness requirements and believes the objectives of each test can be achieved with a wait time of 3 minutes. Accordingly, NHTSA has revised the Model Specifications to provide that BAIIDs must be ready for all tests and retests within a period of 3 minutes. This change represents an improvement over the 1992 Model Specifications, is not as restrictive as the 2010 proposal and is consistent with (though not identical to) the European standard. See also the discussion above in Section II.C.3.a. of this notice.

Some comments addressed the voltage levels. LifeSafer, for example, expressed concern that the 9V level would be too low at -40°C . (p. 15.) On the other hand, ACS agreed with the agency's proposal, stating that "this emulates a real world circumstance in a vehicle during winter months and with less than optimal batteries." (p. 10.) This was the agency's intention. NHTSA wanted to simulate less than optimal conditions, which commonly occur in winter. This aspect of the proposal is adopted without change.

Comments were received also concerning NHTSA's statements in the proposal prohibiting use of a removable sensing head. These comments are discussed in detail in Section II.B.2. above. As explained above, the revised Model Specifications do not prohibit the use of removable heads and provide allowances for these components under

extreme temperatures, consistent with manufacturer instructions to users.

Test 7—Vibration

The agency received no objections to the proposed vibration test, although ACS noted that, "Instead of interpreting the requirements of the vibration test," NHTSA could consider simply referring to "SAE standards for automobile electronic components." (p. 32.) This proposed test is adopted without change.

Test 8—Retest

Under Test 8, NHTSA proposed a series of tests to simulate the BAIID functions that must operate in connection with retests once the vehicle has been started, including an indication to the driver that a retest must be taken, and an indication that a service call is required when tested with a BrAC of 0.032.

In the 2010 notice, the agency stated that it "does not intend that retests be conducted while the vehicle is moving, but rather while the engine is running with the vehicle stopped in a safe location on the side of the road." (75 FR 61824.) This issue is discussed fully in Section II.B.3. above. In response to comments received, the preamble to this notice no longer specifies how retests should be conducted. The Model Specifications also are revised to remove this reference. They otherwise are not changed.

Test 9—Tampering and Circumvention

In the 2006 notice, NHTSA stated that the 1992 Model Specifications offer a number of procedures for evaluating whether existing devices can be easily circumvented and it asked whether these procedures are sufficient or whether new or modified procedures should be added. (71 FR 8048.)

The comments to this notice criticized the Model Specifications for being confusing and lacking specificity. The comments offered a variety of specific suggestions. In the 2010 notice, NHTSA acknowledged that the circumvention requirements in the Model Specifications were confusing and proposed to clarify them and specify that BAIIDs must have tamper proof seals to indicate when a BAIID has been disconnected from the ignition. (75 FR 61823.) The 2010 proposal also included tests for "hot wiring", push start, un-warmed air sample, warmed air sample, cooled 0.032 BrAC sample and filtered 0.032 BrAC sample. The proposal indicated that each attempt must be noted on the interlock data logger. (75 FR 61829.) A sample format for downloaded data from an interlock

data logger was included in Appendix D to the 2010 notice. (75 FR 61832–33.)

Smart Start supported the proposed tests, and emphasized the importance of anti-circumvention and anti-tampering techniques, stating, "There is a general mistrust in public perception that anyone can test on an interlock, thereby allowing the non sober driver to start their interlock equipped vehicle. NHTSA should take the lead in setting standards that negate this negative perception and instill public confidence in this technology that can separate drinking from driving." (p. 3.)

However, Smart Start also suggested that the Model Specifications could go further. Other comments strongly agreed. Wisconsin stated, "Inclusion of tamper proof seals and routine monitoring for tampering during BAIID service does not go far enough to ensure that ignition interlock devices have sufficient features to prevent circumvention and the subsequent driving by impaired individuals. The proposed model specifications should require anti-circumvention measures in addition to electronically logging these events. These measures could include use of breath signature, humidity, differing blow patterns, photography, pressure, temperature or time to prevent BAIID circumvention." (p. 4.)

The comments seem to support tests (a) and (b) (hot wiring and push start), but they criticized the other four tests. CST explained that these four tests "are based upon circumventions that plagued interlock programs in the early years of [such programs]. To even conduct these tests you would need an interlock with a very rare setting, the setting that allows the breath sample to be given in a long continuous blow." (p. 4.)

Intoximeters asserted that tests (c)–(f) are intended to test the instruments' ability to prevent tampering and circumvention, "but in fact do not do so." According to Intoximeters, "Many BAIID devices are using a hum and blow or blow and hum method to determine if a person is providing the sample." (p. 1.) LifeSafer mentioned also other techniques, including the flow and suck back. (p. 9.) Intoximeters asserted, "It is disingenuous to show that an instrument is meeting these tests, when in fact the common anti-circumvention techniques are not being tested at all." (p. 1.) CST indicated that thirty eight states are already using these anti-circumvention breath sample patterns. (p. 4–5.) Intoximeter suggested that these anti-circumvention methods should be reviewed and tests should be established to determine if they can be beaten. (p. 1.)

Regarding Test 9b (push start), Draeger asserted that depending on the chosen technology, it may take up to 2 minutes until the movement or motor run is detected. Accordingly, Draeger suggested that the Model Specifications should be revised to provide that the vehicle be driven for at least two minutes. (p. 5.)

NHTSA has decided to continue to include the hot wiring and push start tests (9a and 9b) in the Model Specifications. To ensure that the results are properly recorded under the push start test, the Model Specifications specify that the vehicle should be run under this test for at least two minutes.

NHTSA recognizes that increasingly, interlock companies are introducing new, more sophisticated anti-circumvention features into their products, designed to ensure that the driver is blowing into the BAIID and to prevent circumvention. Manufacturers are employing a variety of anti-circumvention methods, including blow and hum, hum and blow, and suck and blow patterns, as well as the use of cameras. NHTSA appreciates that these methods might make some of the tests proposed in the 2010 notice (9c–f) appear to be unnecessary or obsolete.

However, the revised Model Specifications do not specify the use of any particular type of anti-circumvention feature, since that would be tantamount to a design, rather than a performance, standard. In addition, since the technology associated with these features is still evolving and continuing to change rapidly, NHTSA will not attempt to establish further minimum performance criteria for this function at this time. Accordingly, at the present time, NHTSA will continue to include Tests 9c–f in the revised Model Specifications.

Test 10—Restart of Stalled Motor Vehicle

Comments received in response to the 2006 notice suggested that restarts should be allowed only if a vehicle stalls, but not if the ignition is intentionally turned off or if a BAIID malfunctions or is awaiting a retest. In the 2010 notice, NHTSA proposed that a restart (i.e., without a breath sample) should be allowed when the vehicle stalls, provided the restart is accomplished in no more than 20 seconds. NHTSA also proposed that in all other situations where the vehicle malfunctions, the vehicle should be prevented from starting without a breath test. (75 FR 61825.)

The agency received a number of comments in response to this aspect of the proposal, all of which were in

opposition. The comments uniformly argued that a period of 20 seconds is too short and could create unnecessary safety risks, particularly if a vehicle stalls in a hazardous area. Draeger pointed out that panic often occurs in a critical stall situation. (p. 5.) IISI asked whether NHTSA had received any reports that warranted a reduction in the "3 minute time period * * * by nearly 90% to 20 seconds." (p. 3.)

NHTSA acknowledges that stalls can take place in locations, such as on railroad tracks or in heavy traffic, which could present serious hazards should a driver be unable to restart the vehicle. While the comments suggested a variety of counter-proposals, ranging from 1–3 minutes, NHTSA notes that no comments, in response to either the agency's 2006 notice or its 2010 notice objected to the 3 minute time period contained in the 1992 Model Specifications. Accordingly, the agency has decided to retain the time period of 3 minutes.

Test 11—High Altitude

The 2010 notice proposed the addition of a high altitude test and proposed that it would apply only to BAIDs using semiconductor alcohol sensors, based on a belief that high altitudes affect these types of sensors. (75 FR 61826, 61829.) Some comments objected to this unequal treatment. ACS did not object to inclusion of this test, but recommended that it be applied to all alcohol interlocks submitted for conformance testing. (p. 34.) CST asserted that this high altitude test is warranted also for fuel cell devices, but urged that "semiconductor technology should be outlawed" altogether. (p. 5.)

As explained earlier in this notice in Section II.B.1., the agency will not specify particular types of technology that should or should not be used. Instead, the Model Specification specify performance criteria to be met. To ensure consistent treatment of all instruments and to anticipate the possibility of other instruments that might be introduced into the marketplace, all BAIDs should be tested under these high altitude conditions.

Test 12—Cigarette Smoke

This proposed test would require a person who is alcohol-free to smoke approximately 1/2 of a cigarette, and wait one minute or a period specified by the BAID manufacturer before testing. The proposal indicated that a simulator may be used in lieu of a smoker. (75 FR 61829.) ACS objected to this proposed test, stating "This is not a performance test equally applied to all BAIDs if the manufacturer can specify how long to

wait after the person smokes the cigarette." ACS suggested instead that the test should specify, for example, that 30 seconds be applied equally to all BAIDs. (p. 34.) NHTSA disagrees. Like some other elements of these Model Specifications, some conformance tests should be conducted in accordance with the manufacturer's user instructions. If a manufacturer instructs users that they must wait 10 minutes after smoking a cigarette before they may use the BAID, Test 12 should be conducted in accordance with those instructions. We note, however, that a BAID that imposes this sort of limitation on the user may experience disadvantages in the marketplace. This aspect of Test 12 has been clarified, by specifying that the test should be conducted in accordance with the manufacturer's user instructions.

ACS also asked about the possible use of a simulator to conduct this test. Specifically, ACS asked how the test would simulate a person who smokes 1/2 a cigarette and then wait a fixed period of time. (p. 34.) NHTSA no longer believes that a simulator needs to be used for the cigarette smoke test. Accordingly, reference to a simulator in this portion of the Model Specifications has been deleted. No other comments objected to this proposed test. It is otherwise adopted without change.

Test 13—Acetone

The 2010 notice proposed adding an acetone test, based on NHTSA's belief that it is the most common interfering substance for BAIDs. (75 FR 61826.) No comments objected to the inclusion of this test, although CST noted that "the concentration being used for the test is higher than would be experienced by a diabetic about to go into a diabetic coma, and thus . . . does not really reflect real world conditions." (p. 5.) Wisconsin noted that alcohol-specific sensors, such as fuel cells, will have no difficulty passing this test, since substances other than alcohol will have no effect. However, Wisconsin urged that units that are not specific to alcohol, such as semi-conductors, "should be rigorously tested for the impact of interferences such as acetone and other volatile organic compounds." (p. 5.)

This test has been adopted with a lower concentration of acetone (115 microliters, rather than 230), which is a more realistic level. The test should be applied to all BAIDs. No other changes have been made.

Test 14—Emergency Override

This issue was discussed fully in Section II.B.5. NHTSA believes the

decision whether to permit the use of an emergency override feature is programmatic in nature and should be left to the discretion of States and local jurisdictions. Accordingly, as proposed, the Model Specifications do not specify that BAIDs be equipped with an emergency override feature in order to meet the Model Specifications. Since this feature is not specified, the Model Specifications will not include a test of this feature. The Model Specifications are modified to eliminate the reference to a feature that prevents an override from being used when the BAID malfunctions or fails and it removes proposed Test 14.

Test 15—Radiofrequency Interference/ Electromagnetic Interference

In the 2006 notice, NHTSA explained that the RFI testing protocol in the 1992 Model Specifications uses power sources that are no longer commonly in use, but noted that new power sources that may interfere with the operation of BAIDs (e.g., cell phones) have output power commensurate with equipment in use today. The agency asked what are the appropriate levels to measure RFI/EMI. (71 FR 8048.)

The comments pointed out that an increasing number of electronic devices are being operated in close proximity to BAIDs, such as gaming, remote keyless entry, portable medical and Bluetooth-capable devices. The comments offered a variety of recommendations to address these potentially interfering power sources.

In the 2010 notice, NHTSA expressed its belief that the current specifications do not adequately define or describe RFI/EMI tests and proposed to test BAIDs for emissions and transmissions of RFI/EMI and immunity to RFI/EMI using the SAE Surface Vehicle Standard J1113 series for Class C devices (devices essential to the operation or control of the vehicle) and the International Special Committee on Radio Interference (CISPR), Subcommittee of International Electro-technical Committee (IEC); specifically, CISPR 25, for RFI/EMI testing. NHTSA stated that it believed these procedures represent a broad consensus in the industry. (75 FR 61823.)

The agency received comments regarding this test from Smart Start, ACS, LifeSafer, ADS, CST and the State of Wisconsin. Most of the comments supported the proposed tests, although CST expressed the belief that the tests may be unnecessary. (p. 5.) ADS recommended that the appropriate level for testing should be 1W or less, since that level would be sufficient to identify potential cell phone interference. (p. 2.)

Wisconsin recommended that immunity testing for electrical equipment should be conducted in conformity with EN 61326-1:2001. (p. 5.)

The agency has not changed these elements of the Test. NHTSA believes the tests should not be limited to cell phone interference. The EN 61326-1:2001 test cited in Wisconsin's comment is used for remote locations, such as bridges, roads, etc., and not for motor vehicles.

Test 16—Service Interval Display

As discussed more fully in Section II.B.6. and in the discussion regarding Test 3, NHTSA agrees that it is appropriate to decouple the period of calibration stability and the service interval. States and local jurisdictions make decisions about service intervals based on a number of different factors, including the need to supervise some offenders more closely or the desirability of providing an incentive (and permitting a longer service interval) for offenders who have demonstrated compliance with their sentence. In addition, NHTSA recognizes that BAIDs can be programmed to vary the service interval, based on the circumstances in each case. Accordingly, the Model Specifications do not provide for a specific service interval period. Rather, the agency defers to States and local jurisdictions to determine the service intervals they believe are appropriate.

However, Test 16 has a different function. Its purpose is to ensure that the BAID's display of the service interval is working properly. While NHTSA recognizes that service intervals may be set at a variety of time periods, the Model Specifications provide that a period of 30 days (with a 7-day lockout countdown) should be used for the purpose of this test. Under Test 16, after a period of 30 days, the BAID should prominently display that the vehicle be taken to a designated maintenance facility for maintenance and data downloads within seven days. This message should continue to be displayed for seven days. Following the seven-day period, if the BAID is not serviced at a designated maintenance facility, it should not allow the vehicle to be started.

Test 17—Data Integrity and Format

NHTSA proposed that the data be downloaded from the interlock data logger after all other tests have been completed. (75 FR 61831.) No comments objected to this requirement.

D. Other Comments Received Regarding the Model Specifications

1. Dust Test

In the 2010 notice, NHTSA indicated that one comment to the 2006 notice had suggested that several CENELEC standards be adopted into the Model Specifications, including the dust standard. The agency responded that in two decades of experience, NHTSA has received no reports suggesting that dust is an issue or source of concern in BAIDs installed in vehicles. Accordingly, NHTSA did not propose to include a dust standard in the Model Specifications. (75 FR 61826.) A number of comments specifically agreed with the agency's decision, including Smart Start and IISL. A dust standard has not been added.

2. Vehicle-Interlock Interface

The 2006 notice indicated that anecdotal reports from ignition interlock manufacturers have suggested that it is sometimes difficult to install existing interlock systems in some of the newer electronic ignition systems. The agency asked whether NHTSA should establish any guidelines regarding the vehicle-interlock interface. (71 FR 8048.)

The comments received in response were mixed. In general, interlock manufacturers and providers supported a standard interlock-vehicle interface; vehicle manufacturers asserted that requiring a common interface presented significant challenges that could compromise vehicle ignition security systems and anti-theft immobilizing technologies. In the 2010 notice, NHTSA acknowledged that a common interface could afford installation convenience. However, the agency indicated that it would not specify such a requirement in the Model Specification and explained that "such a requirement goes beyond the scope of this proposal, which is limited to the BAID itself and not to changes to the vehicle." (75 FR 61823-24.)

The comments received in response to this issue were mixed. For example, National Interlock asked NHTSA to reconsider its decision and establish specifications regarding a common interface. (p. 1.) ADS said it would support this type of provision. (p. 2.) CST agreed with the vehicle manufacturers that a common interface could compromise anti-theft systems and should not be required. (p. 7.) Draeger expressed its view that requiring a specific interface on all vehicles might be impractical. (p. 3-4.) ACS agreed with the agency that the interface is beyond the scope of these Model Specifications. (p. 12.) CIIM

argued that, "As advances in the automobile industry evolve, installation of interlock devices becomes more difficult. There are examples of installations taking hours, even days to complete as remote starters and push button ignitions become more prevalent." CIIM urged NHTSA to "facilitate a dialogue between the two industries about this issue." (p. 3.)

NHTSA will take CIIM's recommendation under advisement. However, the agency continues to believe that a common interface in vehicles for ignition interlocks is outside the scope of these Model Specifications. Accordingly, the agency has not included such a requirement in this notice.

3. International Harmonization

In the 2006 notice, NHTSA asked about the importance of harmonizing NHTSA's Model Specifications for BAIDs with standards in other parts of the world. (71 FR 8048.) The comments received in response to this aspect of the notice were varied. Some comments supported harmonization with CENELEC (the European standard) due to increasingly global economy; others opposed harmonization based on a belief that aspects of the CENELEC standard are potentially restrictive and costly. In response, NHTSA proposed to maintain an independent set of Model Specifications, but to incorporate selected elements of the CENELEC, including vibration and cigarette smoke. (75 FR 61825.)

As noted above, the comments favored inclusion of these tests and some comments suggested that other CENELEC tests be included as well, including high temperature, dust and the drop test.

NHTSA has carefully considered other standards, including CENELEC, and as appropriate, has incorporated consistent provisions into these Model Specifications. In some cases, variations are warranted, based on cost, conditions and the manner in which BAIDs are used in the United States. Further discussions regarding individual tests are contained in other sections of this notice.

4. Ignition Interlock Program Guidelines

In the 2006 notice, NHTSA asked whether the ignition interlock community (users, manufacturers, States, etc.) favor NHTSA development of an "interlock program" in addition to Model Specifications for devices. (71 FR 8048.) Some comments supported the development of ignition interlock program guidelines; others expressed the belief that program guidelines have

been and should remain a function of State government.

NHTSA did not include program guidelines in the 2010 notice, but indicated that the agency may explore the development of such guidelines in the future. (75 FR 61825.) The comments generally supported this position. AAMVA urged NHTSA to ensure that any such guidelines are "based on scientifically valid research" and "allow the necessary flexibility." (p. 1.)

As stated earlier in this notice, NHTSA is committed to providing support, and not dictating practices, to the States. Over the last few years in particular, the agency has sought to provide information, support and technical assistance to the States in a variety of ways. NHTSA hosted a National Ignition Interlock Summit and invited representatives from every State to attend. NHTSA has also produced a number of publications containing information about ignition interlock programs, including "Ignition Interlocks—What You Need to Know: A Toolkit for Policymakers, Highway Safety Professionals and Advocates" (DOT HS 811 246), "Key Features for Ignition Interlock Programs" (DOT HS 911 262), National Ignition Interlock Summit Proceedings" (available on www.ghsa.org) and a series of New Mexico ignition interlock studies (see Traffic Tech 401; November 2010). In addition, NHTSA supported the development of the Alcohol Interlock Curriculum for Practitioners by the Traffic Injury Research Foundation (TIRF) (available on www.tirf.ca) and has supported technical assistance workshops, meetings and training (in cooperation with TIRF) and a series of regional Ignition Interlock Summits (in cooperation with Mothers Against Drunk Driving). Also, NHTSA has provided financial assistance to support the establishment of a new National organization, representing State Ignition Interlock Program Administrators.

NHTSA will continue to provide support and assistance to States as they seek to expand and strengthen their ignition interlock programs, and the agency will consider whether the development of program guidelines would add value to the field. However, such guidelines are outside the scope of this notice and have not been included in the Model Specifications.

E. NHTSA Testing of BAIIDs and Conforming Products List (CPL)

In the 2006 notice, the agency asked, whether NHTSA should undertake the responsibility to evaluate ignition interlocks against its Model

Specifications and publish a CPL of devices meeting those specifications. (71 FR 8048.)

In the 2010 notice, in response to comments received, NHTSA explained that the comments favored a certified testing laboratory program. Most advocated a NHTSA test program and the development of a CPL based on the Model Specifications. One commenter favored having a single private testing laboratory certified by NHTSA for this purpose. Several manufacturers noted significant problems with State certification requirements leading to questionable test results for some products. In general, both manufacturers and States favored a NHTSA test program because it would organize and standardize the industry and exclude less effective BAIIDs. One commenter suggested that NHTSA require BAIID recertification in the event of an instrument design change and/or at some reasonable interval. (75 FR 61824.)

In the 2010 notice, NHTSA proposed to test BAIIDs for conformance with the Model Specifications. NHTSA also proposed to maintain and publish periodically a CPL with BAIIDs that have been tested and found to conform to the Model Specifications. NHTSA proposed to manage this new program as it does its other breath alcohol instrument testing programs. (75 FR 61824.)

NHTSA explained that testing of BAIIDs will be subject to the availability of Federal funds. If Federal funds are not available, NHTSA will discontinue testing BAIIDs until funds become available. (75 FR 61825.) In the proposed Submission Procedures contained in Appendix A of the 2010 notice, NHTSA proposed that it would "test BAIIDs on a first-come, first-served basis." (75 FR 61831.)

More than half of the comments addressed this issue and many of them raised concerns, though the concerns expressed were varied. Some of the comments related to the potential of insufficient funds and whether Volpe has the capacity to conduct the testing. For example, Oklahoma stated, "We cannot support the limitation that 'All tests are subject to the availability of Federal funds.'" (p. 2.) ACS asserted that "Volpe Laboratories lacks the equipment, expertise and perhaps financial resources to conduct the range of qualification tests on alcohol interlocks for conformance with the Model Specifications." (p. 16.) The comments offered various possible solutions to address these concerns, including that the manufacturers fund the testing of BAIIDs (Smart Start), that there be a funding limitation (Draeger)

or that NHTSA consider certifying independent laboratories to perform some or all of the testing (ACS, Alcohol Detection Systems, Draeger, Guardian, National Interlock, Coalition of Ignition Interlock Manufacturers).

In general, the comments were supportive of a NHTSA CPL. Guardian's comments were typical. They stated, "whether the test results are provided by NHTSA or by [an outside laboratory], a conforming product should be placed on the NHTSA conforming products list." Guardian asserted further, "If NHTSA cannot agree to this critical element, then there should NOT be a CPL for these products." (p. 2.)

While some comments seemed to express alarm about the statement in the 2010 notice that the testing program would be subject to the availability of funds, this limitation applies to all Federal programs, including NHTSA's current testing programs for evidential breath testers, calibrating units and other breath alcohol instruments and devices.

The Volpe National Systems Center is currently in the process of developing the capacity to conduct Radiofrequency Interference (RFI) and Electromagnetic Interference (EMI) testing. Volpe is capable of conducting all other tests delineated in the Model Specifications. NHTSA expects that Volpe will have the ability to conduct the RFI/EMI tests in the near future. Until then, Volpe has the ability to procure these tests from other qualified laboratories.

However, the comments raise a valid concern about the ability of any one laboratory, including Volpe, to test all available BAIID models in a sufficiently timely manner, especially during the initial period when these revised Model Specifications will initially go into effect. The agency also appreciates the concern that some comments expressed regarding the testing of BAIIDs on a first-come, first-served basis. The agency does not wish to take any steps that would create an unfair competitive advantage for some manufacturers over others.

Since these revised Model Specifications represent a substantial departure from the existing 1992 specifications, NHTSA will delay rendering a decision about the feasibility and timing of a CPL until more information is available about the implications for testing costs, resource requirements and the time necessary to conduct product testing.

Accordingly, NHTSA plans to conduct an assessment to determine whether establishing and maintaining a CPL is feasible, prior to rendering a decision.

If the agency determines that a CPL is feasible, NHTSA will announce its intention to develop a CPL in a **Federal Register** notice and will, at that time, outline the procedures that will apply, including steps for submitting BAIIDs for compliance testing. The agency would seek to establish procedures that ensure a level playing field, in terms of competition among ignition interlock manufacturers.

Accordingly, NHTSA expects that manufacturers will continue to certify, and States and local jurisdictions will continue to determine, that BAIIDs conform to the Model Specifications essentially in the same manner that is currently being used. However, the revised Model Specifications, rather than the 1992 version, should be used, once they become effective. The Model Specifications will not take effect immediately, but rather will be delayed for one year, to provide manufacturers of BAIIDs sufficient time to make conforming modifications to their instruments and to conduct testing, as warranted.

F. Appendices to the 2010 Notice

The 2010 notice contained four appendices. Appendix A included submission procedures for conformance testing of BAIIDs. (75 FR 61831.) Appendix B included procedures for the re-examination of BAIIDs, which occur at the sole discretion of NHTSA. (75 FR 61831–32.) Appendix C provided a template for a Quality Assurance Plan. (75 FR 61832.) Appendix D provided a sample format for downloaded data from the interlock data logger. (75 FR 61832–33.)

As explained above, NHTSA has not yet decided whether it will develop a CPL. It will first conduct an assessment to determine its feasibility. If the agency decides that a CPL is feasible, NHTSA will publish a **Federal Register** notice announcing its plans to proceed and will, at that time, outline the procedures that will apply.

Accordingly, the first two appendices that were contained in the 2010 notice (then identified as Appendix A and Appendix B) are not included in this notice. The other two appendices that were contained in the 2010 notice (then identified as Appendix C and Appendix D) have been renamed as Appendix A and Appendix B, respectively.

III. New Model Specifications

On October 6, 2010, NHTSA proposed revisions to the 1992 Model Specifications for BAIIDs. (75 FR 61820.) Those proposed revisions were based, in part, on input from the comments received in 2006. Today, in

response to the October 6, 2010 notice, the 1992 Model Specifications have been revised.

This Notice is not intended to take the place of any State certification requirements; rather, it provides for a voluntary testing and conformance program.

These Model Specifications do not have the force of regulations and are not binding. States and others may adopt these Model Specifications and rely on any tests that NHTSA may conduct, or they may conduct their own tests according to their own procedures and specifications.

After consideration of the comments, the Model Specifications for Breath Alcohol Ignition Interlock Devices have been revised to reflect the decisions discussed above and are set forth below.

Authority: 23 U.S.C. 403; 49 CFR 1.95; 49 CFR Part 501.

MODEL SPECIFICATIONS FOR BREATH ALCOHOL IGNITION INTERLOCK DEVICES (BAIIDs)

A. Purpose and Scope

The purpose of these specifications is to establish recommended performance criteria and test methods for breath alcohol ignition interlock devices (BAIIDs), commonly referred to as alcohol interlocks or ignition interlocks. BAIIDs are breath alcohol sensing instruments designed to prevent the motor vehicle from starting unless the driver first provides a breath sample whose alcohol concentration is below the set point into the BAIID. If the measured breath alcohol concentration (BrAC) is at or above a set level, the vehicle will not start. BAIIDs are currently being used as court sanctions as well as administrative conditions of licensure. Drivers convicted of impaired driving may be required to use BAIIDs in their vehicle under court supervision or as part of a required path to full reinstatement of driving privileges. These specifications are intended for use in conformance testing of BAIIDs installed in vehicles. These specifications are voluntary and do not impose any compliance obligations on BAIID manufacturers or others.

B. Terms

Alcohol—Ethanol or ethyl alcohol (C₂H₅OH).

Alcohol set point—Breath Alcohol Concentration (BrAC) at which a BAIID is set to prevent a vehicle from starting.

Breath Alcohol Concentration (BrAC)—The amount of alcohol in a given amount of breath, expressed in weight per volume (w/v) based upon grams of alcohol per 210 liters (L) of

breath, in accordance with the Uniform Vehicle Code, Chapter 11, Section 11–903.4 and 5.¹

Breath alcohol ignition interlock device (BAIID)—A device that is designed to allow a driver to start a vehicle if the driver's BrAC is below the set point and to prevent the driver from starting the vehicle if the driver's BrAC is at or above the set point.

Breath Sample—Normal expired human breath primarily containing air from the deep lung.

Calibration Stability—The ability of a BAIID to hold its accuracy and precision over a defined time period.

Circumvention—An attempt to bypass the correct operation of a BAIID, whether by use of an altered breath sample, by starting the vehicle by any means without first providing a breath sample.

Filtered air sample—Any human breath sample that has intentionally been altered so as to remove alcohol from it.

Interlock Data Logger—A device within a BAIID that records all events, dates, and times during the period of installation and use of a BAIID.

Retest—A breath test that is required after the initial engine start-up breath test and while the engine is running. This is also referred to as a running retest.

Service Interval—The time period established by the State or jurisdiction that a BAIID may be used without maintenance or data download. If the device is not serviced within the period, warnings are provided and the device will prevent further operation.

Simulator—A device that produces an alcohol-in-air test sample of known concentration (e.g., a Breath Alcohol Sampling Simulator (BASS))² or a device that meets the NHTSA Model Specifications for Calibrating Units (72 FR 34742)).

Tampering—An attempt to physically disable, disconnect, adjust, or otherwise alter the proper operation of a BAIID.

C. General Provisions and Features of BAIIDs

Conforming BAIIDs must meet the following provisions:

The BAIID must pass each of the conformance tests 1 through 16 in Section D, unless explicitly excluded from a test by the specific terms of these specifications.

¹ Available from the National Committee on Uniform Traffic Laws and Ordinances, 107 South West Street, #110, Alexandria, VA 22314 (<http://www.ncutlo.org>).

² See NBS Special Publication 480–41, July 1981. Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

NOV 18 2016

Installation and service of the BAID in a vehicle must not compromise any normal function of the vehicle, including anti-theft functions, on-board computer functions, or vehicle safety features required by the Federal Motor Vehicle Safety Standards, and must not cause harm to the vehicle occupants. Care should be taken to protect against reverse polarity and damage to other circuits and to ensure that the BAID does not drain the vehicle's battery while in sleep mode (i.e., power save mode).

The BAID must have tamper proof seals to indicate when a BAID has been disconnected from the ignition.

The BAID must be capable of permitting a vehicle to start or preventing it from starting at specified breath alcohol concentrations.

The BAID must be tested at an alcohol set point of 0.02 g/dL with a flow rate of 0.3 L/sec. Upon detecting an alcohol concentration at or above that set point, the BAID must prevent the vehicle from starting for a period of time before another test can be performed.

If the vehicle is equipped with a remote start device, the BAID must be installed so that the remote start function is bypassed or disabled and a valid breath test must be performed before the vehicle may be started.

If the BAID has a removable sensing head, the BAID may not allow the vehicle to start without use of the sensing head.

The BAID must include clear instructions to the driver (e.g., when to blow, when to wait, when to start the vehicle, when to retest, when a lockout countdown occurs, including the time remaining before the BAID may be used again to start the vehicle, and when to seek service).

Manufacturers must submit the operator's manual (user's guide or instructions to the user), the maintenance manual, and specifications and drawings fully describing the BAID.

In addition, manufacturers must submit the quality assurance plan (QAP). The QAP must include the following information: instructions for checking the calibration of the BAID (i.e., recommended calibrating unit, BrAC of 0.02 g/dL, agreement not greater than ± 0.005 BrAC, verification of accuracy of readout, actions to take for failed calibration check), instructions for downloading the data from the interlock data logger, instructions to maintain the BAID, instructions on checking for tampering, and any other information regarding quality assurance unique to the BAID. See Appendix A for a sample QAP template.

The design of the BAID must include an interlock data logger that will record, at a minimum, all start attempts and outcomes, including an emergency override if applicable, delineation of calibration checks, circumvention, tampering, operator attempts to start the vehicle, and BrAC for each start attempt. The data must be presented in chronological order (i.e., by date and time of event). See Appendix B for a sample format for downloaded data from the interlock data logger. The manufacturer must provide a means of downloading the data from the interlock data logger.

Any change to a BAID that could affect its performance, including potentially software changes, should require additional testing. The BAID must track all changes to the metrological software and indicate the software version and date on all printed and downloaded reports. NHTSA is aware that States (and local jurisdictions) use different set points in their interlock programs, and changes to the set point, alone, would not require additional testing. The Model Specifications provide that BAIDs are to be tested at an alcohol set point of 0.02 g/dL.

D. BAID Test Procedures

General Test Conditions

Unless otherwise specified in a conformance test, the following conditions apply to each test:

- Number of trials at each alcohol level = 20
- Ambient temperature: $22\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$ ($71.6\text{ }^{\circ}\text{F} \pm 5.4\text{ }^{\circ}\text{F}$).
- Ambient atmospheric pressure: $97.5\text{ kPa} \pm 10.5\text{ kPa}$ (25.7 and 31.9 inches Hg).
- Sample parameters: volume 1.2 liters; ambient flow rate 0.3 Liters per second; maximum delivery pressure 2.5 kPa; temperature $34\text{ }^{\circ}\text{C}$ ($93.2\text{ }^{\circ}\text{F}$)
- Simulated breath samples will be generated by the BASS³ or by a wet bath type calibrating unit that is listed on the NHTSA Conforming Products List for such devices. Solutions used in the calibrating device will be prepared as described in the NHTSA Model Specifications for Calibrating Units published June 25, 2007 (72 FR 34742).

Performance Requirements

Unless otherwise specified in a conformance test, the BAID must meet the following performance requirements in each test:

- Tests at 0.000 g/dL BrAC: the vehicle must not be prevented from starting during 20 trials.
- Test at 0.008 g/dL BrAC: the vehicle must not be prevented from starting more than once during 20 trials.
- Tests at 0.032 g/dL BrAC (grams alcohol/210 liters of air): the vehicle must not start more than once during 20 trials.
- A BAID must be ready for use 3 minutes or less after it is turned on. A BAID must be ready for a second test within 3 minutes or less of a preceding test.

Conformance Tests

Unless otherwise specified in a test, these conformance tests need not be conducted in any particular order. Except when a test or portion of a test specifically requires the use of a motor vehicle, either a motor vehicle or a bench test set-up that simulates the relevant functions of a motor vehicle may be used.

Test 1. Precision and Accuracy

Test the BAID at the following alcohol concentrations:

- a. 0.000 g/dL BrAC,
- b. 0.008 g/dL BrAC, and
- c. 0.032 g/dL BrAC.

Test 2. Breath Sample Volume and Flow Rate

Use a mass flow meter to monitor sample volume. Conduct each test (a–d) five times.

- a. Test at 0.000 g/dL BrAC with sample volume 1.0 liter. The BAID must prevent the vehicle from starting and indicate insufficient volume 5 out of 5 times.
- b. Test at 0.000 g/dL BrAC with sample volume 1.5 liters. The BAID must permit the vehicle to start 5 out of 5 times.
- c. Test at 0.000 g/dL BrAC with sample volume 1.2 liters at 0.1 L/s. The BAID must prevent the vehicle from starting 5 out of 5 times.
- d. Test at 0.000 g/dL BrAC with sample volume 1.2 liters at 0.7 L/s. The BAID must permit the vehicle to start 5 out of 5 times.

Test 3. Calibration Stability

Initialize the BAID to begin the calibration stability test. A BAID must not be re-calibrated after the start of Test 3. Conduct Test 1. Repeat Test 1 at 37 days. Test 2 and Tests 4–15 may be performed between these two Precision and Accuracy tests.

If requested by the manufacturer, repeat Test 1 at 67 days, 97 days and 187 days. These additional tests are optional. They exceed the minimum requirements of this test.

³ See NBS Special Publication 480–41, July 1981. Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

Test 4. Input Power

Conduct Test 1b and Test 1c at the following input power conditions:

- a. Test at 11 VDC input power.
- b. Test at 16 VDC input power.

Test 5. Extreme Temperature and Humidity

Using a temperature/humidity chamber:

a. Soak the BAIID at $-40\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$) for 1 hour, then conduct Test 1b and Test 1c at that temperature using 9 VDC input power.

b. Soak the BAIID at $49\text{ }^{\circ}\text{C}$ ($120\text{ }^{\circ}\text{F}$), 95 percent relative humidity for 1 hour, then conduct Test 1b and Test 1c at that temperature and humidity using 16 VDC input power.

c. This part of the test applies only to BAIIDs with components installed in the engine compartment. Soak the

components of the BAIID that are installed in the engine compartment at $85\text{ }^{\circ}\text{C}$ ($185\text{ }^{\circ}\text{F}$), 95 percent relative humidity for 1 hour, then conduct Test 1b and Test 1c at that temperature and humidity using 16 VDC input power.

The components that are installed in the passenger compartment should remain at ambient temperature and humidity conditions. Removable components will be tested in accordance with the manufacturer's instructions to the user. (See General Test Conditions).

Test 6. Warm Up Time at $-40\text{ }^{\circ}\text{C}$

Using a temperature chamber, soak the BAIID for 1 hour at $-40\text{ }^{\circ}\text{C}$. With input power set at 9 VDC, the BAIID must be ready to test in 3 minutes, and ready to retest in 3 minutes after being turned on. Conduct Test 6 five times. The BAIID must indicate that it is ready

to test or ready to retest in 3 minutes all five times. This test may be conducted in conjunction with Test 5 Extreme Temperature and Humidity.

Test 7. Vibration

Vibrate the BAIID in simple harmonic motion on each of three main axes uniformly through the frequency schedule specified below. For components not intended to be mounted on the engine, vibrate according to Test 7a; for components intended to be mounted on the engine, vibrate according to Test 7b. If a BAIID consists of several components connected by electrical wires or connected wirelessly, vibrate these components separately. After completion of the vibration, remove the BAIID from the shake table and conduct Test 1b and Test 1c.

VIBRATION FREQUENCY SCHEDULE

Test 7	Frequency range, Hz	Number of cycles	Sweep rate, octave/min	Amplitude, inches 0 to peak	Acceleration, gravity (g), 0 to peak
a	10 to 500	10	1	0.2	3
b	10 to 500	10	1	0.08	15

Test 8. Retest

If a BAIID includes a feature designed to detect whether the vehicle is moving, conduct Test 8 using a motor vehicle. If a BAIID does not include a feature designed to detect whether the vehicle is moving, conduct Test 8 using a motor vehicle or a bench test set-up that simulates the relevant functions of a motor vehicle.

a. Within an interval of 5 to 7 minutes after a vehicle successfully starts, using a 0.000 g/dL BrAC test sample, and while the engine is still running, the BAIID must indicate that a second breath sample is required. Conduct Test 1b five times. The BAIID must treat this test as a passed retest all 5 times.

b. Within an interval of 5 to 7 minutes after a vehicle successfully starts, using a 0.000 g/dL BrAC test sample, and while the engine is still running, the BAIID must indicate that a second breath sample is required. Conduct Test 1c five times. The BAIID must treat this test as a failed retest and prominently indicate the need for a service call.

A failed retest must be identified as an alert condition and flagged on the interlock data logger. A missed retest must be flagged on the interlock data logger. After the driver is alerted to retest, if the engine is accidentally or intentionally powered off, the BAIID must not allow the vehicle to start without a service call.

Test 9. Tampering and Circumvention

Attempt to start the ignition as indicated below. Conduct each test (a through f) five times. Each attempt to start the engine must be logged by the interlock data logger.

a. *Hot wiring*. Start the engine by electrically bypassing the BAIID. The interlock data logger must record the ignition on with no breath test.

b. *Push start*. A motor vehicle must be used for this part of Test 9. Use a vehicle equipped with a manual transmission. Start the engine by pushing the vehicle with another vehicle or by coasting the vehicle downhill before engaging the clutch. The vehicle must run for at least two minutes. The interlock data logger must record the ignition on with no breath test.

c. *Un-warmed air sample*. Deliver an alcohol-free air sample of at least 2 liters into the BAIID using an air filled plastic bag which is fitted to the sampling tube and squeezed in a manner that mimics a person blowing into the BAIID. The vehicle must not start.

d. *Warmed air sample*. Prepare a 12-ounce foam coffee cup fitted with a bubble tube inlet and a vent tube (rubber or tygon tubing) attached through the plastic lid. Fill the cup with 8 ounces of water warmed to $36\text{ }^{\circ}\text{C}$ and attach the lid. Attach the vent tube to the BAIID and pass an air sample of at

least 2 liters through the bubble tube into the heated water and thence into the BAIID. The flow rate must not be high enough to cause a mechanical transfer of water to the BAIID. The vehicle must not start.

e. *Cooled 0.032 BrAC sample*. Attach a 4 foot long tygon tube of $\frac{3}{8}$ inch inside diameter which has been cooled to ice temperature to the inlet of the BAIID, then test at 0.032 BrAC. The vehicle must not start.

f. *Filtered 0.032 BrAC sample*. Prepare a 1 to 2 inch diameter 3 to 5 inches long paper tube loosely packed with an active absorbent material. Use loose cotton plugs to retain the absorbent in the paper tube. Pack the tube so that a person can easily blow 2 liters of air through the assembly within 5 seconds. Test the absorbent by passing a 2 liter 0.032 BrAC sample through the assembly within 5 seconds. If the air passing out of the BAIID is found to have a concentration of 0.006 BrAC or less, prepare 5 tubes packed in the same manner, fit separately to the BAIID and test at 0.032 BrAC. The vehicle must not start.

g. *Alternative to Tests 9c—9f*. If a BAIID includes an anti-circumvention feature designed to ensure that the driver is blowing into the BAIID, test its operation at 0.000 BrAC in lieu of tests 9c—9f.

Test 10. Restart of Stalled Motor Vehicle
Conduct Test 10 using a motor vehicle.

Using a 0.000 g/dL BrAC sample, turn on the ignition. Turn off the ignition. Attempt to restart the ignition without a breath sample in less than 3 minutes—the vehicle must start. Turn off the ignition. Attempt to restart the ignition without a breath sample within 3 minutes after turning off the ignition—the vehicle must not start. Conduct Test 10 five times.

Test 11. High Altitude

Conduct Test 1b and Test 1c each at pressures of 80 kPa and 110 kPa (600 mmHg and 820 mmHg). Conduct Test 11 five times at each indicated pressure. At indicated pressure levels, for Test 1b, the ignition must treat the test as a passed test; for Test 1c, the ignition must treat the test as a failed test.

Test 12. Cigarette Smoke

Direct a cigarette smoker, who is alcohol-free, to smoke approximately 1/2 of a cigarette. The smoker must wait 1 minute or the period specified by the BAID manufacturer in its user instructions before testing. Conduct Test 12 three times. The vehicle must start.

Test 13. Acetone

Test the BAID for acetone interference. Conduct Test 1b by adding 115 microliters of acetone⁴ to the 500 milliliters of .008 g/dL BrAC alcohol simulator solution. Conduct Test 1b three times. The vehicle must start.

Test 14. Radiofrequency Interference (RFI)/Electromagnetic Interference (EMI)

The Society of Automotive Engineers (SAE) Surface Vehicle Standard J1113 series, Required Function Performance Status, as defined in Surface Vehicle Standard J1113-1 for Class C devices (devices essential to the operation or control of the vehicle), and the International Special Committee on Radio Interference (CISPR), Subcommittee of International

Electrotechnical Committee (IEC), specifically CISPR 25, will be used to evaluate BAID electromagnetic immunity and compatibility. The test severity levels are specified below. The tests must be performed while the BAID is in the drive and standby modes.

a. J1113-1 2006-10 General and definitions. Electromagnetic Compatibility Measurement Procedures and Limits for Vehicles, Boats, and Machines (Except Aircraft) (16.6 Hz to 18 GHz).

b. J1113-2 2004-07 Conducted immunity 30 Hz to 250 kHz—Power leads.

Level	Severity (volts, peak to peak)	Status
1	0.15	I
2	0.50	I
3	1.0	I
4	3.0	II

c. J1113-4 2004-08 Conducted immunity—Bulk Current Injection (BCI) Method.

Level	Severity (milliamps)	Status
1	25 to 60	I
2	60 to 80	II
3	80 to 100	III
4	100	IV

d. J1113-11 2007-06 Immunity to Conducted Transients on Power Leads.

Pulse (12 v sys)	Level	Severity (volts)	Status
1	1	-25	I
	2	-50	II
	3	-75	II
	4	-100	IV
2a	1	25	I
	2	40	II
	3	50	II
	4	75	IV
2b	1	10	I
3a	1	-35	I
	2	-75	II

Pulse (12 v sys)	Level	Severity (volts)	Status
3b	3	-112	II
	4	-150	IV
	1	25	I
	2	50	II
4	3	75	II
	4	100	IV
	1	-4	I
	2	-5	II
5	3	-6	II
	4	-7	IV
	1	87	IV

e. J1113-13 2004-11 Part 13: Immunity to Electrostatic Discharge.

Severity	Status
Contact discharge	
0-4 kV	I
4-8 kV	II
8 kV	IV

Severity	Status
Air discharge	
0-4 kV	I
4-15 kV	II
15 kV	IV

f. J1113-21 2005-10 Immunity to Electromagnetic Fields, 30 MHz to 18 GHz.

Severity (V/M)	Status
Up to 60	I
60-80	II
80-100	III
100-150	IV

g. J1113-22 2003-11 Immunity to magnetic fields

Severity (uT)	Status
40	I
40-50	II
50-80	III
80	IV

h. IEC CISPR 25 Limits of Radio Disturbance.

RADIATED DISTURBANCE LIMITS

[1 M test distance, 120 kHz bandwidth]

30-75 MHz	75-400 MHz	400-1000 MHz
a 62 - 25.13 × log(F/30)	52 + 15.13 × log(F/75)	63
b 52 - 25.13 × log(F/30)	42 + 15.13 × log(F/75)	53

a: broadband, quasi-peak detector.
b: narrowband, average detector.
limit in dB (uV/M) at frequency F.

⁴ The amount of acetone specified is experimentally determined based on water to air

partition factor of 365 to 1 at 34 °C to yield an

acetone concentration in the air sample of 0.5 mg/liter.

CONDUCTED TRANSIENT EMISSIONS	
Pulse polarity	Maximum pulse amplitude (12 volt system) (V)
Positive	75

CONDUCTED TRANSIENT EMISSIONS— Continued	
Pulse polarity	Maximum pulse amplitude (12 volt system) (V)
Negative	-100

LIMITS FOR BROADBAND CONDUCTED DISTURBANCES

MHz	0.15–0.3		0.53–2.0		5.9–6.2		30–54		68–108	
	P	QP	P	QP	P	QP	P	QP	P	QP
a	93	80	79	66	65	52	65	52	49	36
b	80	67	76	63	62	49	62	49	56	43

a: power lines, limit in dB (uV).
 b: control lines, limit in dB (uA).
 P: peak detector.
 QP: quasi-peak detector.

LIMITS FOR NARROWBAND CONDUCTED DISTURBANCES

MHz	0.15–0.3	0.53–2.0	5.9–6.2	30–54	68–87	76–108
a	70	50	45	40	30	36
b	60	50	45	40	40	46

a: power lines, limit in dB (uV).
 b: control lines, limit in dB (uA).
 limits by peak detection.

Test 15. Service Interval Display

Initialize the BAIID to begin the service interval period. After thirty (30) days, the BAIID must prominently indicate that it must be taken to a designated maintenance facility for maintenance and data downloads within 7 days or the vehicle will not start and the event will be logged. Over the course of the 7-day lockout countdown, the BAIID must prominently indicate that the BAIID is in need of service and the time remaining until ignition lockout. During this period, the vehicle may be started if other conditions for starting the vehicle are met. At the end of the 7-day lockout period, the BAIID must prominently indicate that the BAIID is in need of service and the vehicle must not start. Other tests (except Tests 14 and 16) may be performed during this 37-day period.

Test 16. Data Integrity and Format

Complete all other tests before performing Test 16. Download the data from the interlock data logger and compare it to the data recorded for each test. Disconnect, then reconnect the power to the interlock data logger. Download the data again and compare it to the first data download. No lost or corrupted data is allowed. Check the data format (i.e., date and time of event) to verify conformance with the sample format in Appendix D.

APPENDIX A—QUALITY ASSURANCE PLAN TEMPLATE

[Manufacturer name]

Quality Assurance Plan for

[Interlock name AND Model number]

[date]

This Quality Assurance Plan (QAP) and the operating instructions for the [Interlock name] provide step-by-step instructions for checking the accuracy of the calibration of a BAIID and the maintenance of the BAIID. (As noted in the Model Specifications, BAIIDs must hold calibration for at least 37 days (30 days + 7 day lockout countdown) and must prominently display the service interval and provide for a 7 day lockout countdown.)

1. Provide step-by-step instructions for checking the calibration of the BAIID. These instructions must include:

- Indication of the period of time that the BAIID can maintain calibration;
- Recommended calibrating unit(s) (listed on NHTSA's Conforming Products List of Calibrating Units for Breath Alcohol Testers) and instructions for using the calibrating unit(s);
- Breath alcohol concentration to be used in the calibration check(s): 0.02 g/dL BrAC;
- Agreement of the calibration check with the breath alcohol concentration of the calibrating unit: not greater than ± 0.005 BrAC
- Description of how to verify the accuracy of the BAIID reading of BrAC (e.g., from an instrument read out, printout, interlock data logger, etc.);

- Description of actions that must be taken if the BAIID fails the calibration check.
 - 2. Provide instructions on downloading the data from the interlock data logger.
 - 3. Provide instructions on how to maintain the BAIID (i.e., what must be examined during maintenance; any functions that require less frequent checks). Such instructions must detail any corrective action to be taken if the BAIID fails to perform as well as any events that would require a BAIID to be taken out of service and returned to the manufacturer.
 - 4. Provide instructions on how to check for tampering.
 - 5. Other information regarding quality assurance unique to this instrument, if any:
- Contact information for the BAIID manufacturer regarding calibration and maintenance issues:

APPENDIX B—SAMPLE FORMAT FOR DOWNLOADED DATA FROM THE INTERLOCK DATA LOGGER

EXAMPLE 1—ACCEPTABLE START AND DRIVE CYCLE

Date	Time	Start attempts (engine activity)
4/21/07 ...	0951	start attempt. sample accepted. BrAC (alcohol absent, e.g., 0.000, 0.008). starter active.
	0952	engine on.
	0956	retest. sample accepted. BrAC (alcohol absent, e.g., 0.000, 0.008).

EXAMPLE 1—ACCEPTABLE START AND DRIVE CYCLE—Continued

Date	Time	Start attempts (engine activity)
	1032	engine off.

EXAMPLE 2—ACCEPTABLE START BUT FAIL ROLLING RE-START

Date	Time	Start attempts (engine activity)
4/22/07 ...	2316	start attempt. sample accepted. BrAC (alcohol absent, e.g., 0.008). starter active.
	2317	engine on.
	2319	retest.
		BrAC (alcohol present, e.g., 0.025). warning given.
4/23/07 ...	0047	engine off.

EXAMPLE 3—PUSH START

Date	Time	Start attempts (engine activity)
4/23/07 ...	2054	ignition keyed. warning given. starter not active.
	2055	engine on.
	2120	warning given. engine off.

EXAMPLE 4—START ATTEMPTED BUT ALCOHOL DETECTED. RETRY

Date	Time	Start attempts (engine activity)
4/21/07 ...	1652	start attempt. sample accepted. BrAC (alcohol present, e.g., 0.030).

EXAMPLE 4—START ATTEMPTED BUT ALCOHOL DETECTED. RETRY—Continued

Date	Time	Start attempts (engine activity)
	1653	warning given.
	1656	start attempt. sample accepted. BrAC (alcohol absent, e.g., 0.015). starter active.
	1657	engine on.
	1702	retest.
		sample accepted. BrAC (alcohol absent, e.g., 0.010).
	1850	engine off.

EXAMPLE 5—START ATTEMPTED USING FILTERED SAMPLE. RETRY

Date	Time	Start attempts (engine activity)
4/15/07 ...	2016	start attempt. low temp.
	2205	warning given. start attempt. sample accepted. BrAC (alcohol absent, 0.000).
	2206	starter active.
	2352	engine on. engine off.

EXAMPLE 6—CALIBRATION CHECK

Date	Time	Start attempts (engine activity)
4/28/07 ...	0900	start attempt. sample accepted. BrAC (alcohol absent, 0.000 or 0.008). starter active.
	0903	engine on.
	0926	retest.

EXAMPLE 6—CALIBRATION CHECK—Continued

Date	Time	Start attempts (engine activity)
	1032	sample accepted. BrAC (alcohol absent, 0.000 or 0.008). engine on.
	1045	Calibration check.

Issued on: May 3, 2013.

Jeffrey Michael,

Associate Administrator for the Office of Research and Program Development National Highway Traffic Safety Administration.

(FR Doc. 2013-10940 Filed 5-7-13; 8:45 am)

BILLING CODE 4910-59-P

DEPARTMENT OF THE TREASURY

Internal Revenue Service

Quarterly Publication of Individuals, Who Have Chosen To Expatriate

AGENCY: Internal Revenue Service (IRS), Treasury.

ACTION: Notice.

SUMMARY: This notice is provided in accordance with IRC section 6039G of the Health Insurance Portability and Accountability Act (HIPPA) of 1996, as amended. This listing contains the name of each individual losing United States citizenship (within the meaning of section 877(a) or 877A) with respect to whom the Secretary received information during the quarter ending March 31, 2013. For purposes of this listing, long-term residents, as defined in section 877(e)(2), are treated as if they were citizens of the United States who lost citizenship.

LAST NAME	FIRST NAME	MIDDLE NAME/INITIALS
ABDULAZIZ ABDULLAH AL SAUD	SADEEN	
ABRAM	ISAAC	ZIKO
ADAMS	STANLEY	PHILLIP
ADRIAN	SHEILA	MAY
AHOUR	RAMIN	
AKRE	JAMES	EUGENE
AKRE	PIA	SOPHIE
AL-JALLAL	ZIYAD	ABDULAZIZ
AL-KAZEMI	MAY	FAISAL
ALOMRAN	ABDULAZIZ	
AL-RUMAIM	TAREK	
AL-SABAH	BIBI	MURBARAK
AL-SABAH	YASMINE	MUBARAK
AMARAL	DAVID	MICHAEL
AMMANN	HOPE	TRUDY
ANDO	YUKI	
APPEL	EVA	NOELLE
ARIAS	MADELAINE	ANTONIA
AROSEMENA III	ROGELIO	AUGUSTO
ASKAR	EMAD	A
ASTROW	ANDRE	IGOR



Pete Ricketts
Governor

STATE OF NEBRASKA

Governor's Policy Research Office
Lauren L. Kintner, Director
P.O. Box 94601 • Lincoln, Nebraska 68509-4601
Phone (402) 471-2414 • Fax (402) 471-2528

November 18, 2016

Rhonda Lahm, Director
NE Department of Motor Vehicles
301 Centennial Mall South
Lincoln, NE 68509

RE: Title 250 NAC 1 — Rules and Regulations of the Department of Motor Vehicles Regarding the Approval and Installation of Ignition Interlock Devices and Administration of the Ignition Interlock Permit Program

Dear Mrs. Lahm:

On November 18, 2016, the Governor approved the above-referenced regulations. The Governor's Policy Research Office filed the regulations with the Secretary of State's Office on November 18, 2016.

Sincerely,

A handwritten signature in blue ink that reads "Barb Damewood".

Barb Damewood
Administrative Assistant

cc: Policy Advisor
GPRO Files