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PART III:

ENVIRONMENTAL PROTECTION AGENCY



NOISE EMISSION
STANDARDS FOR
TRANSPORTATION
EQUIPMENT

Medium and Heavy Trucks

Title 40---Protection of Environment CHAPTER I—ENVIRONMENTAL PROTECTION AGENCY [FRL 511-6]

PART 205—TRANSPORTATION EQUIPMENT NOISE EMISSION CONTROLS **PART 205-**

Medium and Heavy Trucks

1. INTRODUCTION

On October 30, 1974, notice was published in the Feberal Register (39 FR 38338) that the Environmental Protection Agency (EPA or Agency) was proposing noise emission standards for new medium and heavy trucks distributed in commerce. The purpose of this notice is to establish final noise emission standards for new medium and heavy trucks distributed in commerce by establishing a new Part 205 of Title 40 of the Gode of Federal Regulations. This final rulemak-ing is promulgated pursuant to sections 10, 11, and 13 of the Noise Control Act of 1972; 86 Stat. 1234; Public Law 92-574 (the Act).

Through the Noise Control Act of 1972. the Congress established a National pol-icy "to promote an environment for all cy "to promote an environment for all Americans free from noise that jeopardizes their health and welfare." In pursuit of that policy, Congress stated in section 2 of the Act, "that, while primary responsibility for control of noise rests with State and local governments, Federal action is essential to deal with major policy sources in compared of moise sources in commerce control of which requires national uniformity of treatment." As part of this essential Federal action, section 6 of the Act requires the Administrator to publish proposed regulations for each product which is identified (or is part of a class identified). in any report published under section 5 (b) (1) as a major source of noise, and if such products fall into certain specified categories, one of which is transportation component, to prescribe regulations unless in his judgment noise emission standards are not feasible. The Administrator identified medium and heavy trucks as a major source of noise (39 pp. 2207) FR 22297).

Under section 6 of the Act, such regulations are to include noise emission standards, setting limits on noise emisstandards, setting limits on noise emissions from products distributed in commerce, which are requisite to protect the public health and welfare, taking into account the magnitude and conditions of use of such products, the degree of noise reduction achievable through the application of best available technology, and the cost of compliance. The final regulathe cost of compliance. The final regulathe cost of compliance. The final regula-tion being promulgated contains a per-formance type noise emission standard and specifies the testing procedure neces-cary to assure compliance with the emis-sion standard. The Agency believes that the standards established by this regu-lation represent the levels of noise emis-sions which can be applicated at the standards. sions which can be achieved at reasonable cost by the respective effective dates through the application of the best available technology. However, these noise-levels are not sufficiently protective of public health and welfare. Accordingly, the Agency is continuing to investigate

the availability of technology to further reduce the standards for subsequent years at acceptable cost. A section in the regulation has been reserved for a standard effective in 1925, which EPA will promulgate as an amendment in accordance with section 6(c) (3) of the Act.

Under section 15 of the Act, the Administrator shall certify as a low-noise-emission-product (LNZP) any product which emits noise in amounts simili-cantly below the levels specified by any noise emission standard included in a regulation promulgated pursuant to section 6, for which certification application has been properly filed and which the Administrator determines is suitable for use as a substitute for a type of product in use by agencies of the Federal Government (see 39 FP, 6670, February 21, 1974). At this time the specific LNEP noise level(s) for medium and heavy trucks has not been determined; however, the Agency will assign specific level(s) in the near future. Accordingly, a subsection in the regulation has been reserved for LNEP standard and selection criteria.

Under section 6(c)(1) of the Noise Control Act, after the effective date of n regulation promulgated under section 6 regarding product poles a regarding product noise emission levels, no State or political subdivision thereof may adopt or enforce any law or regulation which sets a limit on polse emissions from new products regulated by EPA, unless such law is identical to the applicable EPA regulation. Thus, the preemption is against non-identical State and local laws regulating the noise emission level of a Federally-regulated new product, i.e., a product not yet sold to the first retail purchaser. This re-quires that the standard and those dements of the measurement methodology which are necessary to define the standard be identical to the EPA regulation. However, other elements of the State or local law need not be identical. Such elements include the list of persons subject to the regulations, methods of selecting test vehicles and sanctions,

Section (6) (c) (2) of the Act specified that nothing in section 6 shall preclude or deny the right of any State or political subdivision thereof to establish and en-force controls on environmental noise and sources thereof through the licens-ing, regulation, or restriction of the use, operation, or movement of any product or combination of products. Such controis which are reserved to State and local authority under this section include, but are not limited to, the following:

1. Controls on the time of day during

which products may be used,

2. Controls on the places or zones in which products may be used,

- 3. Controls on the number of products which may be operated at the same time,
- 4. Controls on noise emission level from the properties on which products are used. 5. Controls on the manner of opera-

tion of products. Thus, Federal regulations promulgated under section 6 preempt State and local

time-of-sale noise emission standards for a product only after the effective date of a Federal regulation applicable to such product and only to the extent that State or local noise emission stand-ards (and those elements of measurement methodology which are necessary to define the standard) are different from the Federal standards relating to that product.

Conversely, State and local authorities are free to enact regulations on new products offered for sale with standards identical to the Federal standards. The Environmental Protection Agency en-courages the adoption of such regula-tions so that State and local governments may also become actively involved

in the enforcement of the standards.

Recognizing that the Noise Control Recognizing that the Noise Control Act was enacted to protect the public from adverse health and welfare effects due to noise, EPA is carrying out its regulatory responsibilities for abating noise from transportation equipment, and in the present instance, medium and heavy trucks, through regulatory action under section 6.

The medium and heavy trucks are the

The medium and heavy trucks are the major contributing noise source to overall urban and freeway traffic noise. The Agency has commenced regulatory ne-tion on other transportation vehicles, and the levels chosen for the standards in this initial medium and heavy truck regulation are consistent with the over-all requirements to quiet all vehicles in

all requirements to quiet all vehicles in order to ultimately reduce noise from all surface transportation sources to an acceptable level.

The legal basis and factual conclusions which support promulgation of this regulation were set forth in substantial detail in the Notice of Proposed stantial detail in the Notice of Proposed Rulemaking published in the Federal Rulemaking published in the Federal Rulemaking on October 30, 1974 (339 FR 38338). This publication solicited public comment with the comment period extending initially from October 30, 1974, to December 15, 1974, and subsequently extended by Federal Russers notice (39 FR 42379) to December 31, 1974.

To ensure that all the issues involved in the proposed regulation would be fully addressed prior to the propulgation of

in the proposed regulation would be fully addressed prior to the promulgation of the final regulation, public hearings were held (40 FR 3167, January 22, 1975) in Arlington, Virginia on February 19 and 20, 1975, and in San Francisco, California on February 25 and 27, 1975, In conjunction with these hearings, an additional comment period was allowed, extending from February 19, 1975, to March 20, 1975. The principal issues reviewed at these hearings related to the lead time set forth for manufacturer compliance with the standard, the enforcement program specified in the proposed regulation, and the pro-jected impact of the regulation on manu-facturers, users, the transportation industry, and the general public.

Public comments received during each

of the three public comment periods, as well as the transcripts of the public hearings, are available to the public and are maintained at the EPA Headquar-ters, Public Information Center, 401 M Street SW., Washington, D.C. 20460.

· 2. Summary of the Regulation

2.1 Standard and Effective Date

The regulation establishes standards and enforcement procedures for noise emissions resulting from the operation of newly manufactured medium and heavy trucks over 10,000 lbs gross ve-hicle weight rating (GVVR) distributed in commerce. The standard specifies Aweighted sound pressure level, measured at a distance of 50 feet (15.24 meters) from the longitudinal center line of the , using fast meter response. The standard measurement procedure used to obtain the data is presented in more detail in S205.54, subpart B.
The standard and effective dates are:

Effective date Sound level (dBA): 83______ Jan. 1, 1978. 80______ Jan. 1, 1983. [Reserved]_____ Jan. 1, 1985.

The enforcement procedures include production verification, selective enforcement auditing procedures, warranty, compliance labeling and antitampering provisions.

2.2 Enforcement Program

2.2.1 General

The EPA enforcement strategy under the Noise Control Act of 1972 will place on the manufacturer the major share of on the manufacturer the major share of the responsibility for testing to deter-mine the compliance of new medium and heavy trucks with the emission standard. This approach benefits the manufacturer by leaving his personnel in control of many aspects of the com-pliance program and imposes only a minimum burden on his business. At the same time, the inevitable conflict of interest imposed on the manufacturer makes monitoring by EPA of these tests and manufacturers' actions taken in compliance with these regulations advisable to ensure that medium and heavy trucks distributed in commerce are in fact in compliance with these regulations. Accordingly, the regulations pro-vide that EPA Enforcement Officers may be present and observe any testing re quired by these regulations, or the Administrator, may require that a manufacturer supply him with trucks for testing either at the manufacturer's facility or at the EPA Enforcement Test Facility In addition, enforcement officers will be empowered to inspect records and facilities in order to assure that manufacturers are carrying out their responsi-

bilities properly.

The regulations require that the first person who creates the entity which con-forms to the definition of venicle is responsible for production verification and complying with the labeling requirements. Any person who performs subsequent manufacturing operations on the new product after it has become a vehicle as described within these regu-lations need not duplicate production verification or labeling operations. How-ever, it is incumbent upon this subsequent manufacturer to assure that his manufacturing operations do not cause the product to exceed the prescribed

standards or obscure or remove the required labels. In order that the Administrator may determine the effect on the noise performance of the vehicle, the subsequent manufacturer is subject to the selective enforcement audit of these regulations.

The enforcement strategy promulgated in these regulations consists of three main parts: (1) Production Verification, (2) Selective Enforcement Auditing, and (3) In-Use Compliance Provisions, A detailed description of these parts, includ-ing other important administrative parts, fellows.

2.2.2 Production Verification

Production verification is the testing by a manufacturer or EPA of early production models to verify whether a manufacturer has the requisite noise control technology in hand and is capable of applying the technology in a manufacturing process. Models selected for testing must have been assembled using the manufacturer's normal assembly method and must be units assembled for sale. Models tested must conform with the standard or the manufacturer may be required to cease distribution in com-

merce of trucks of that model.

The production unit selected for testing is a truck configuration. A truck configuration is defined on the basis of truck type, delivery rate, cooling system, air intake and induction system, engine system, and exhaust system. Most of the testing required by these resulations will be performed by the menufacturer at his test site, using his equipment and per-sonnel, although the Administrator reserves the right to be present to monitor or perform any tests! Production verification does not involve any formal EPA approval or issuance of certificates subsequent to manufacturer testing, nor is

any extensive testing required of EPA.

To avoid delays of shipment of early To avoid dejays of shipment of early production models, due to weather conditions which preclude testing, these regulations provide that production verication of a configuration is automatically and conditionally waived for a manufacturer for a period of up to 45 consecutive days from distribution in commerce of the first truck of that configuration. The manufacturer must test a truck on the first day that weather a truck on the first day that weather conditions at his site permit. Fallure to test on such first suitable day will result in automatic and remoactive withdrawal of the waiver and will render the manu-facturer liable for illegally distributing trucks into commerce.

A manufacturer may production verify a configuration any time during the model year or in advance of a model year if he desires.

A manufacturer shall verify production trucks by one of two methods: The first method will involve testing of a pro-duction truck (intended for sale) of each configuration.

Alternatively, production verification testing of all configurations produced by a manufacturer may not be required where a manufacturer determines that the noise levels of some configurations are consistently higher than others or

are always representative of other cofigurations. In such a case, the hig' emitter would be the only configurat requiring verification testing.

The manufacturer must product verify each model year. In some stances, a manufacturer may verify a models based on data submitted during the models and the models are manufacturer must product the model of th previous model years.

2.2.3 Selective Enforcement Auditing

These regulations provide for samtesting based on an audit of product trucks. Selective Enforcement Audic (SEA) is the term used in this rest tion to describe the testing pursuant an administrative request, in accorda with the proposed test procedure, o statistical sample of production trufrom a particular truck category or c. figuration selected from a particular sembly plant in order to determ whether production trucks conform the standards and to provide the bir further action in the case of no conformity.

The sampling strategy adopted by F does not attempt to impose a quality c trol or quality assurance scheme upp manufacturer but merely audits the e

formity of his products.

One important factor which will in: ence the decision of the Administra to issue a test request is whether manufacturer is conducting noise en sion testing of production trucks on own cognizance. If a manufacturer provide evidence that his trucks meeting standards bused on tests to campling methods acceptable to EPA. suance of a test request may not necessary.

The general type of sampling straideveloped by EPA employs attribut, type sampling plans applied to a spec' number of batches. Under inspection attributes, items are inspected or ter to determine whether they meet the puscified specification. The basic decisions criterion is the number of produ whose parameters meet specificat! rather than the average value of scparameter. The particular criterion trucks is the noise emission stands established by this regulation. As applied to truck noise emissions,

Acceptable Quality Level (AQL) is maximum percentage of failing true that for purposes of sampling inspect can be considered satisfactory, where truck is considered a failure if it excethe noise emission standard. An AQTI-10 percent was chosen to take into count some test variability and rand, production errors.

2.2.4 Labeling-Compliance and E. terior

These regulations require that true shall be labeled to provide notice to the truck conforms to the standa-contained herein. The compliance leshall contain a notice of tampering publibitions in the Act which prohibit removal or rendering inoperative of a noise control features which are idea fied in the owner's manual. The Agent is presently examining a number of ex terior vehicle label configurations whiwould allow an enforcement official, at a distance from the vehicle, to ascertain the noise emission standard to which the vehicle must comply. Accordingly, a section has been reserved in the regulation for this purpose and as information is developed for such an exterior label, regulations may be proposed in the future under separate rulemaking.

2.2.5 Inspection and Monitoring

Because of the inevitable conflict of interest which results from any compilance system where a significant part of the regulatory activity is controlled by those being regulated, it is essential that EPA personnel have access to aspects of the system in order to determine whether the requirements of the regulations are being followed and whether conforming trucks are being distributed into com-merce. Specifically, the inspection and monitoring activities shall be for the purpose of gathering information to enable the Administrator to satisfy himself that required records are being kept. that products which will be tested are being selected and properly prepared for conducted and that the manufactured product is one which conforms to the regulations, including the applicable noise emission standard. Such inspection and monitoring activities will include access to facets of the testing program required by the regulations; records, reports, and test results which must be
maintained; facilities (production, test
and storage) which are connected with
the manufacturing of trucks.

As a minimum, 24 hours prior notice

As a minimum, 24 hours prior notice will normally be given to a manufacturer by the Director of the Mobile Source Enforcement Division or his representative advising him of any visit of EPA Enforcement Officers. However, the resulation does provide for notice only at the time of the visit provided the visit is authorized in writing by the Assistant Administrator for Enforcement.

2.2.6 Record Eceping

. These regulations describe the records and other occuments concerning testing of trucks which must be maintained and the retention period.

The regulations require that the manufacturers have available a discription of his product line and maintain records on specific individual trucks he has tested. For the most part, these information requirements can be satisfied by keeping on hand updated copies of production verification reports. Additionally to preclude issuance of test requests under the Selective Enforcement Auditing procedures for trucks that may not be available, the Administrator may request production information for particular truck models.

2.2.7 Administrative Remedies

-Section 11(d)(1) of the Act provides that:

Whenever any person is in violation of Section 10(a) of this Act, the Administrator may issue an order specifying such relief as he determines is necessary to protect the public health and welfare.

Clearly, this provision of the Act is intended to grant the Administrator discretionary authority to fashion civil annetions to supplement the criminal penalties of Section 11(a). The regulations provide for two types of civil remedies: (1) recall orders, and (2) cease to distribute orders.

penanties of Section 17th. The regularitions provide for two types of civil remedies: (1) recall orders, and (2) cease to distribute orders.

If trucks which were not designed, built, and equipped so as to conform with these regulations were distributed in commerce, such act would be a violation of Section 10(a) and remedy of such nonconformity would be appropriate. Remedy of the affected trucks might be carried out pursuant to a recall order.

In some instances, the Administrator may wish to Issue a cease to distribute order. If a manufacturer fails to properly verify, the Administrator may issue an order requiring the manufacturer to cease the distribution in commerce of trucks of that category or configuration pending compliance with the production verification requirements. The Administrator will provide the manufacturer notice and the opportunity for a hearing prior to the issuance of such an order.

These regulations also provide for remedy when any manufacturer refuses to allow EPA personnel access to his facility to conduct activities authorized by the regulations. This remedy is in the form of an order issued by the Administrator to cease distribution in commerce of trucks of the specified configuration being manufactured at that facility. The Administrator will provide a manufacturer notice and the opportunity for a hearing prior to the issuance of such an order.

2.2.8 Exemptions

The regulations also outline the procedures by which EFA will administer the granting of exemptions from the prohibitions of the Act to various product manufacturers, pursuant to Section 10(b). The substantive scope of the exemption provisions of section 10(b) (1) and (2) are defined and procedures whereby exemptions may be requested are set forth. Exemptions will be granted for testing and national security reasons only. Export exemptions will be automatically effective, without request, upon the proper labeling of the products involved. Testing exemptions must be justified in writing by a sufficient demonstration of appropriateness, necessity, reasonableness, and control. Requests for national security exemptions must be enforced by an agency of the Federal Government charged with the responsibility for national defense. This would preclude the granting of exemptions for products used for public welfare, such as municipal first trucks.

2.2.9 Enforcement Test Facility

EPA intends to have operational in early 1976 a noise enforcement test facility. This facility will be located in Sandusky, Ohio at Flum Brook Station.

EPA intends to conduct confirmatory tests on products already tested by manufacturers in addition to independent compliance testing on products not specifically tested by the manufacturer. Because some manufacturers may not have available to them a facility which meets the requirements of these regulations, the EPA Enforcement Test Facility would be available for use by such manufacturers to conduct the required testing. Additionally, manufacturers with access to facilities may wish to test oretest some of their products at the EF/ Enforcement Test Facility in order to assure themselves that they have success fully production verified their product.

In the instance where compliance testing is conducted at the EPA Enforcemen Test Facility at the manufacturer's raquest, he would be charged a fee which representative of the actual expense is the Government.

2.2.10 In-Use Compliance

The manufacturer is required design, build and equip vehicles subject to these regulations so that they do mexceed the prescribed noise emission standard at the time of ultimate sal. The requirement that the product manufactured to meet the standard without degradation over a period of useful life is not presently included in the final regulation due to the lack of adquate data to determine the precise priod of useful life and the amount degradation (if any) that may be allowed to occur with use of the product of the compliance of the production of the compliance of the collected. In-use compliance provision are included to avoid or minimize de radation from initial noise emissiblevels.

levels.

The in-use provisions include a quirement that the manufacturer provide a noise emission warranty to purchasers (required by section 6(d)), provide information to the Administrativity which will assist in fully defining the acts which constitute tampering (und i 10(a) (2) (A)), and provide retail prohasers with instructions specifying maintenance, use, and repair required reasonably assure elimination or ministration of noise level degradation (thorized by § 6(c) (1)].

Under the warranty provisions, tended to more fully implement is (1) of the Act, it is required that manufacturer warrant to the ultimand subsequent purchasers that i vehicles subject to these regulations designed, built, and equipped so reconform at the time of sale with the Feral noise control regulations, immunifacturer must furnish this timesale warranty to the ultimate purches in a prescribed written form, which he reviewed by EPA in order that Agency can determine whether manufacturer's warranty policy is sistent with the intent of the Act, though this is a time-of-sale warrant claims may be made against the manufacturer at any time during the life the vehicle with respect to a non-formity which relates back to the of sale.

The recall section provides that manufacturer may be required by to recall vehicles of a particular

figuration, if it is determined that 3.1 Technology vehicles of this configuration did not conform to Federal noise emission stand-that the proposi-

ards at the time of sale.

The tampering provisions require the manufacturer to furnish a list of acts which may be done to vehicles in use and which, if done, are likely to have a detrimental impact on noise emissions. The Administrator will then use this infor-mation to develop a final list of those acts which are presumed by EFA to constitute tampering. A statement of the Federal law on tampering and the tampering list must be provided in written form to the

ultimate purchaser.
Under the tampering section of the
Noise Control Act, EPA believes that any nonoriginal equipment aftermarket part discluding a rebuilt part) may be in-stalled in or on a vehicle subject to these regulations if the installer has a reasonable basis for knowing that it will not adversely affect noise emissions. For noise-related replacement aftermarket parts, a reasonable basis exists if (a) the installer reasonably believes that the replacement part or rebuilt part is designed to perform the same function with respect to noise control as the replaced part, or (b) the replacement part or re-built part is represented in writing by the part manufacturer or rebuilder to perform the same function with respect to noise control as the replaced part.

For noise-related, add-on, auxiliary, augmenting, or secondary parts or systems, a reasonable basis exists if (a) the installer knows of noise emission tests which show that the part does not cause noise emissions to exceed the time-of-sale standards; or (b) the part or system manufacturer represents in writing that tests have been performed with similar results (to (a) above), or (c) a Federal, State or local environmental control agency with appropriate jurisdiction expressly represents that a reasonable basis exists.

The sections dealing with instructions for proper maintenance, use, and repair of the vehicle are intended to insure that purchasers know exactly what is required to minimize or eliminate degradation of the noise level of the vehicle during its life. These instructions must be both necessary to reasonably assure nondeg-radation and reasonable in the burden placed on purchasers. A record or logbook must be provided to the ultimate purchaser in order that the purchaser may record maintenance performed during the life of the product. The instruc-tions may not contain language which, tends to give the manufacturer or his dealer an unfair advantage over the aftermarket. Finally, the regulation provides for Agency review of instructions and related language.

3. SUMMARY OF COMMENTS RECEIVED

The EPA has carefully considered all of the comments received regarding the proposed noise emission regulation for medium and heavy trucks. A discussion of these comments with the Agency's response thereto follows. A more detailed response appears as an Appendix to the Background Document

3.1.1 Several commenters contended that the proposed standards could not be achieved through the application of the best available technology, as required by the Act.

EPA considers that the level "achievable through the application of the best available technology" is the lowest noise level which can be reliably predicted based on engineering analysis, that prodto meet by the effective date, through application of currently known noise attenuation techniques and materials. In order to assess what can be achieved, EPA has (1) identified the sources of the contraction to the contraction of the contra truck noise and the levels to which each truck noise and the levels to which each of these sources can be reduced, using currently known techniques; (3) determined the level of overall truck noise that would result; (3) assured that all such techniques may be applied to the general truck population; (4) assured that all such techniques are adaptable to preduction-line assembly; (5) assured that sufficient time is allowed for the that sufficient time is allowed for the design and application of this technology

by the effective dates of the standards.
The studies done by EPA, as shown in the Background Document, indicate that levels as low as 75 dBA could be achieved by trucks subject to this regulation, given adequate lead time. However, comments indicated that the kinds of technology which we must currently assume would be applied to achieve levels that low inay. impose unreasonable costs. This was not the case with levels of 80 dBA and above. Thus, in order to clarify this area of uncertainty, EPA has elected to continue investigating costs and technology for levels below 80 dBA with the intention of promulgating a more stringent standard at a later date to take effect in the post-1062 time period.

3.1.2 One commenter asserted that EPA has not followed its own definition of available technology as stated in the preamble to the proposed regulation, 39 FR 38338 (October 30, 1973).

FR 38338 (October 30, 1973).

That statement defined available technology in part as "Technology applications that have been demonstrated to be feasible, as a prototype product upon which menufacturing may be based."

The comment charged that there was no such prototype, and therefore the technology is not cautable. That desirtion nology is not available. That definition suggests that a prototype is one way to demonstrate the feasibility of a standard. It may be a prototype of a complete truck; or it may be a prototype of a sound attenuation device. There are many ways of demonstrating the feasibility of a standard which applies to a multisource product. What is required is that the means of quieting the noise are known and that it has been shown that they are capable of practical application. Further, it is necessary that these be the kinds of applications that can be integrated into the normal course of assembly-line production, EPA has done the analysis necessary to establish these points. Therefore, these technology applications have been "demonstrated to be feasible."

3.2 Health and Welfare

3.2.1 Commenters criticized the proposed regulatory standards as being both too strict and too lenient.

The Noise Control Act of 1972 require

The Noise Control Act of 1972 require the EPA to set standards which are requisite to protect public health and welfare, taking into account the noise reduction achievable through the application of best available technology, the magnitude and conditions of use, and the cost of compliance. The Agency he identified authors day-refer sound layer identified outdoor day-night sound level equal to or less than 55 dB as requisit to protect public health and welfare with an adequate margin of safety.

As explained in the Background Do: ument, EFA estimates that compliant with the regulation will reduce the inpacted people from urban traffic nois by 57.9 percent, assuming a 4 dBA reduction in the noise of other vehicles. Although this represents a significant reduction in extensiveness (number e-people impacted) and severity (magni-tude of each person's exposure) of existing urban noise impact, at the same time it demonstrates that lower levels that those promulgated here are necessary public health and welfare is to be ad:

quately protected.
3.2.2 A number of commenters felt the assessment of public health and well fare benefits should be improved.

Improvements have been made in the EPA assessment of the public health are welfare benefits appearing in the Each ground Document. Some of the revision include:

1. The treatment of a wider range

regulatory options,

2. The inclusion of noise contribution from buses and motorcycles.

3. The consideration of the effect of the new truck regulations on reducing the noise levels from noisier trucks more than initially quieter trucks.

4. Revision of truck engine-relational tire noise levels.

5. Assessment of the effect of redutions in the noise levels from vehicle other than medium and heavy trucks.

The estimates of benefits given by EP are believed to be more detailed and extensive than any of the estimates give in public comments to the proposed reg unitions and provide the best available information on benefits upon which base the selection of regulatory levels. The assessments of the benefits give

by EPA include estimates of the number of people impacted by traffic noise, the extent to which various human activitie. are disrupted by the noise, and the relic from impact associated with the reduc tion in traffic noise resulting from several possible regulatory options.

3.2.3 Several commenters stated than "Environmental Impact Statement ลท (EIS) should be issued for this regula-

tion.

The Environmental Protection Agency is not legally required to accompany it. pact Statement. However, as of Octobe 15, 1975, the EPA has established the policy to voluntarily accompany its messignificant proposed regulations with Environmental Impact Statements, Single



this regulation was proposed prior to that date it was not subject to that policy, and a draft EIS consequently was not prepared. The Background Document published in support of both the proposed and this regulation contains a substantial portion of the information which would otherwise be found in an Environmental Impact Statement.

3.3 Economics

3.3.1 A number of commenters indieated the benefits below 83 dBA are not cost effective.

The Act does not require that standards be set that are cost effective in terms of return in benefits for the costs incurred. The mandate to EPA in the Noise Control Act is to set standards necessary to protect public health and wel-fare, taking into account available technology and the cost of compliance. However, based on an extensive analysis un-dertaken by the Agency of the benefits and costs for a wide range of regulatory options, the cost effectiveness of these regulations is higher than indicated in public comments. The estimated uniform annualized costs for the regulation are no more than 0.26 percent of the uniform annualized revenues of the trucking industry.

Based on assessment of the increase in truck prices due to compliance with this noise emission regulation it is estimated that to meet 63 dBA a 1.0 percent average increase in price would result and to age increase in price would result and to meet the 80 dBA standard a 2.8 percent average increase in price would result. Regarding estimates of initial price in-creases, the public comments in the doc-ted and public hearings identified sig-nificant differences between EPA and in-clustry, particularly in the cost associated with compliance with a 75 dea, standard for heavy trucks. The Agency has determined that further analysis of potential cost increases related to a standard more stringent than those established by this regulation is necessary and, consequently, has delayed establish. ment of more stringent noise control standards.

The cost analysis which has been con-The cost analysis which has been con-dicated by the Agency represents a worst case analysis. The component costs are based on 1975 technology and do not in-clude cost reductions that would occur through application of this technology to mass production processes. Further, it can be applicated that advances in it can be anticipated that advances in technology and the production applica-tion of technology will occur following the promulgation of this regulation and will likely result in reductions in the cost estimates projected at this time by the Agency.

*Uniform annualized costs are the equal annual annuity payments made on a hypothetical loan borrowed by the user of a product to pay for the additional annual operating maintenance, and capital expenditures incurred over the life of the product due to the application of noise abatement technology. The principal of this hypothetical loan is equal to the total present value of these initial and future expenditures.

The Administrator has carefully considered the costs and economic impact with respect to the benefits to be derived as a result of this regulatory action and judged them to be reasonable.

3.3.2 Several commenters indicated that the costs of the regulation, as pre-

sented by EPA, are too low.

1. Increases in Truck Prices: The dif-ferences between the estimates of truck price increases made by the Agency and the estimates presented by truck manufacturers in the public comments on the proposed regulations are caused by dif-ferences in (1) the noise treatments considered necessary to comply with the regulatory levels and (2) the estimates of the cost of each unit of noise treatment hardware.

The EPA estimates of truck price increases are based on specified cost estimates for noise control treatment hardware for cooling, exhaust, engine and air intake noise treatment for trucks equipped with gasoline engines and for trucks equipped with one of twelve diesel engine models. The cost estimates for noise control hardware were derived noise control hardware from three sources, namely; truck man-ufacturer's estimates, list prices for hardware currently in production, and estimates reported in the DOT Quiet Truck Program.

2. Changes in Operating Costs: The Agency has presented estimates of changes in fuel and maintenance costs for trucks which comply with the regu-lations. These estimates are based on documented data from the DOT Quiet Truck Program. Estimates are made which include credit for fuel savings from more efficient fans and fan clutches and savings in maintenance for exhaust gas seals. Estimates are also presented which exclude the above savings.

3. Costs of Testing: The Agency has estimated to the degree possible design and development costs. These costs are difficult to treat in a generalized manner since they depend heavily upon the practices of each individual firm, However, the following provides insight into the approximate magnitudes of these costs. Design costs should be nominal since, after the appropriate sound atten-uation elements have been defined via a development program, what remains is to properly incorporate them into the overall vehicle design. This means providing for the installation of suitable fans, mufflers, and possibly enclosures. This class of problems is encountered during the design of any new model of a vehicle and inclusion in the design phase of considerations for noise control com-ponents is estimated to have little cost impact.

Conducting a development program will, however, require a test site, acous-tical instrumentation and personnel. tical instrumentation and personnel. Many manufacturers already possess acoustic facilities and suitable engineering personnel. For such organizations, the development program required for compliance with the regulations would simply be a continuation of efforts which already are in progress. The Agency has

estimated the total annual costs to estimates the total annual costs to industry of testing as between \$155 to \$230,000. Annual production is mated at about 400,000 vehicle which these regulations are applied. The costs of testing would, thereis be less than \$0.50 per vehicle when sidered over the total production.

be less than \$0.00 per vehicle when sidered over, the total production, 3.3.3 A number of commenters, that EPA should not include fuel ings from fan clutches in estimatin

operating costs.

The issue has been raised on the that due to rising fuel prices and creased fuel economy resulting fulleir use, clutched fans may gain to their use, contened hair may gain a spread acceptance in the truck may without the promulgation of these standards. However, a large numbutrucks now being manufactured are equipped with demand fans even the fuel costs have significantly incre-during the past 2 years. Fuel say should not, therefore, be totally cluded as a benefit of noise control ulation. EPA, in its cost analysis. considered the two cases of (1) cred all fuel savings to its regulation reing from the application of demand a trolled fans and (2) crediting no savings to regulation, thus establis: an upper and lower bound for the associated with the regulation dir related to potential fuel savings.
In the Background Document access

panying this regulation, the costs for trucks both with and without fans ings are presented. The true cost fall somewhere between these two c:

4. CONTINUING AGENCY RESPONSA TO PUBLIC COMMENTS

As mentioned in the foregoing Ag responses to public comments, addition study is required in some areas.

As data is collected by or made as: able to the Agency, these regulations be revised pursuant to section 6(c) (? the Act. The Agency will assess quiet gine and other noise control technolo-development as the standards requi this regulation are implemented will propose lower standards for med. and heavy trucks for the period bey 1962, allowing reasonable time for plementation of such standards.

5. DISCUSSION AND DISPOSITION OF ED GESTED CHANGES IN THE PROPOSED I ULATION

The Medium and Heavy Truck N Emission Regulation which is now b promulgated incorporates sever changes from the proposed regulawhich was published on October 30, 15. These changes are based upon the pu comments received and the results of ditional studies performed by the Age: to assess the impact of the regulati In most instances, changes were made merely clarify the intent of the regul

5.1 Definition of "Slow Meter Respon-

The definition of the "slow meter sponse" has been deleted, since it is : applicable to the regulation.

5.2 Standards and Dates

EPA's economic analysis and health and welfare benefits analysis presented with the proposed regulation have been comprehensively reviewed and revisions made based on new or revised information. Several options involving different time sequences and regulatory levels were developed and carefully analyzed

developed and carefully analyzed.

Previously the Agency had proposed a 75 dBA standard for the post-1982 period, namely January 1, 1983. The Agency has decided not to promulgate a post-1982 standard at this time. The Agency has been sued to force early promulgation of a medium and heavy truck regulation. The Agency agrees that standards should be promptly promulgated for the 1978 and 1982 time frame to permit industry to move to meet such standards, thereby providing protection to the public health and welfare at the earliest possible time.

The regulation as proposed has been delayed in promulgation due to the Agency's efforts at resolving the uncertainties raised by many commentators concerning the ability of the Agency to adequately establish the availability of technology at reasonable cost for standards more stringent than 80 dBA for future years.

Proceeding with standards at this time for 1978 and 1982 periods, we believe is in the best public interest, particularly since anticipated industry production lead times for post-1982 would allow time for further clarifications of these uncertainties and allow for the establishment of more stringent standards within the desired time frame. To indicate clearly the intent of the Agency to establish more stringent standards in the post-1982 period, a section in the regulations has been specifically reserved therefor.

The effective date of the 83 dEA noise level standard has been changed from January 1, 1977 to January 1, 1973 and the 80 dBA noise level standard effective date has been changed from January 1, 1981 to January 1, 1982. This is occasioned by the unexpected delay in promulgating the regulation from the time anticipated in the proposed rulemaking. This extension of the effective dates provides the industry with the requisite lead times, as described in the Background Document to this regulation, to comply with the standards with no industry disruption while minimizing the costs and connomic impacts of applying the required noise control technology.

The extension of the effective dates will only delay by a corresponding length of time the health and welfare benefits which would otherwise be attained with the earlier effective dates for the similar noise levels, but will not otherwise change the resulting benefits.

5.3 Production Tolerances

Production tolerances were considered in setting the regulatory standards in the Notice of Proposed Rule Making and have again been considered in setting the final standards. These tolerances were taken into account in determining the economic impact of this regulation. After careful consideration, the Administrator determined that the standards should remain on a not-to-exceed basis, as originally proposed.

5.4 Calibration

The proposed regulation required a complete celibration of the entire sound measurement system to be made annually. It is considered that this is a minimum requirement and in the final regulation, the calibration has been required on at least an annual basis and as frequently as is necessary during the annual period. It is left to the complying parties as to how often calibration is necessary to ensure the validity of their test data.

5.5 Ambient Noise Levels

The proposed regulation required that the ambient noise be at least 10 dBA below test vehicle noise. It has been suggested that this difference be made greater than 10 dBA. Calculations showed less than ½ dB variation when the difference between levels is 10 db or more. Consequently, the Ambient Level/ Test Vehicle Level difference was left unchanged from 10 dBA.

5.6 Automatic Transmissions

The Agency test procedure as proposed, and the similar SAE J366 test procedure, do not assure that, during testing, the maximum engine noise is generated by vehicles equipped with automatic transmissions. A minor technical modification to the test procedure to deal with this problem has, therefore, been incorporated in the final regulation by the Agency. Technical comments received regarding the test procedures indicate no objections as to validity of the test results obtained using this procedure.

5.7 Averaging the Two Highest Data Points

The proposed regulation required that the two highest data points on each side of the test vehicle be averaged and reported as the results of the test. It has been suggested that this procedure produces results which are higher than levels typically produced by the vehicle. The procedure has been changed to allow two levels within 2 dB of each other to be used as the measured level on each side.

5.8 Cetane Ratings and Test Results

The cetane rating of the fuel used during testing of diesel engines may affect the noise levels generated. For example, a naturally aspirated truck using fuel with a cetane rating of 50 may be measured at 2.4 dBA lower noise emissions than the same truck using fuel with a cetane rating of 42. The normal cetane range for type 2D diesel fuel, the most common, is 42 to 50. A turbocharged truck may vary as much as 1.2 dBA.

Therefore, an addition has been made to the regulation specifying the range of 42-50 cetane rating, thereby preventing the use of very high quality fuel in testing noisy trucks and ensuring that the range of possible variation is limited to 2.4 dBA for compliance testing. This range maintains consistence with other requirements imposed by EPA in the

gaseous emissions regulation. This range does not limit significantly the availability of diesel fuel for testing. It is the most common range of cetane ratings for diesel fuel and can be obtained from virtually every distributor. No changes in testing costs are expected to result from this change to the proposed regulation,

5.9 Allowing the Demand Actuated Fan To Be Disengaged During Vehicle Testing

At the present time, demand actuated fans typically require the fan to operate less than 6 percent of the time. The fact that the fan operates only when it is needed results in significant fuel savings. From a fuel savings standpoint alone, there is an incentive to minimize fan operation time. However, some concerns have been raised that exempting the demand actuated fans from testing may lead to the installation of products inferior to those presently on the market in order to avoid the installation of the regulation. In order to encourage the use of demand actuated fans, the Administrator has decided that fan clutches may be disengaged during compliance testing. If our studies and compliance testing. If our studies and compliance the regulation is being circumvented, appropriate revisions to this regulation will be rapidly implemented.

5.10 Useful Life Standard

As it appeared in the proposed regulation, the standard for medium and heavy trucks was to extend over the useful life of the vehicle. The intent behind this requirement was to ensure that the public health and welfare benefits derived from the medium and heavy truck standard would be fully achieved over time. The Agency maintains that products which meet emission standards developed to protect public health and welfare should continue to meet those standards during the products' life. However, where degradation cannot be reasonably prevented through periodic preventive maintenance and repair, standards may include a degradation allowance.

Currently, only limited data are available to reasonably determine whether and to what degree the noise from a properly maintained and repaired medium and heavy truck would degrade in time. Accordingly, the Agency is reserving a section for useful life requirements in the regulation and will defer action on setting a useful life standard until sufficient data are collected on which to base a standard. The delay in promulgating a useful life standard should not be construed as a deemphasis of this requirement, but merely as a means to assure that an accurate and reasonable useful life requirement may be imposed.

5.11 Enforcement Program

Comments were received which related to many aspects of the proposed enforcement program, including testing, monitoring and inspecting. After considering the comments carefully, EPA has revised the program significantly to make it more streamlined, fair and flexible. These



1.

Specifically, the following modifica-

tions were made;

5.11.1 Inspections and data acquisi-tion have been limited to that informa-tion necessary for the Administrator to determine whether the manufacturer has been or is distributing into commerce

conforming products.
5.11.2 Notice and opportunity for hearing has been provided for in all cases where recall or cease to distribute orders

are to be issued.
5.11.3 Portions of the regulation which limited the right of counsel in any way have been deleted.

5.11.4 Provisions in the proposal requiring personal appearance of employ-ees before EPA Enforcement Officers have been deleted.

5.11.5 Information recording and reporting requirements have been re-

vised to make them quicker and simpler, 5.11.6 The regulation has been amended to allow automatic conditional waiver of the production vertication rewaiter of the produced vertication requirement for up to 45 days to allow distribution of vehicles where inclement weather has delayed testing.

5.11.7 The requirement of ten days' advance notice of intent to test has been

deleted.

The 5.11.8 regulation amended to allow a manufacturer to production verify selected configurations in

any order he desires.

5.11.9 The definitions of category and configuration have been changed so as to significantly reduce the number of defining parameters and reduce the number of categories that would require

testing.
5.11.10 The requirement that tampering information be provided to the Administrator 90 days before distribution has been reduced to 30 days.

5.11.11 The requirement that the manufacturer submit information on noise-related performance specifications has been deleted.

5.11.12 The batch determination for SPA

5.11.12 The batch determination for SEA testing purposes will be based to the extent practicable, on build rate information submitted pursuant to a request for production information, or-dered under 205,53(b).

5.11.13 Provision has been made to allow a manufacturer to petition the agency for review of agency modifications to the manufacturer's suggested maintenance instructions.

G. IMPACT OF THE REGULATION

Using data and information accrued to develop the proposed regulation, complemented by additional technological and economic data and information made available to the Agency during the pub-lic comment periods, the Agency reevaluated the impact of the medium and heavy truck regulation being promulgated. Summarized below are the impacts anticipated.

6.1 Public Health and Welfare

It is estimated that over 98.3 million people are exposed to urban transporta-

tion noise levels that are in excess of Ldn 55. Ldn 55 is the level EPA has identified as protective of public health and welfare with an adequate margin of safety. Compliance with the new truck regula-tion in combination with other vehicle noise control regulations will result in a reduction in the extensiveness (number of people impacted) and severity (magnitude of each person's exposure) of current noise impact by 30.0 percent in 1982. 55.2 percent in 1991, and 57.9 percent by the year 2001. Further, compliance with the new truck regulation along with the regulation of portable air compressor noise at 76 dBA (measured at 7 meters). could produce a combined reduction in construction site noise impact severity in the order of 33 to 43 percent,

In terms of the actual number of people receiving benefits from the medium and heavy truck regulation being promulgated, the regulation will have the direct effect on reducing the impact of urban traffic noise for 98.3 million people and of construction site noise for 27.4 million people.

6.2 Cost and Economic Impacts

The uniform annualized cost is er mated by the Agency to be \$225 mill. when no credit for fuel saving, due to application of thermostatically controlled fan clutches and efficient fan asigns, is credited to the regulation. credit for the fuel savings resulting fit the application of these fan noise tre ments is accrued to the truck noise of trol regulation, the resulting "cost" is fact a uniform annualized "saving" \$523 million. The costs as reported, haben developed as worst case costs quieting existing trucks to a level which meets the standards which incorporat." an adequate quality control margin assure compliance by the manufacture

These costs assume no improveme. in technology, design or application quantity in the production of true With improvements in technology P. with mass production it is estimated tive the above costs may be further reduction by up.to 50 to 60 percent.

Truck list price increases are expect not to exceed those shown in the follow

ing table:

Increase in truck prices due to noise controls by type of truck

Type of truck	83 (IBA			IBA .
12 be at times	Price Increase	Percent increase	Price increase	Percent ingrer:
Medium, pasoline Hravy, pasoline Medium, diesel. Harry, diesel.	.125	. 0,6 1.1 3.5 1.4	\$180 255 850 589	

.7. FUTURE INTENT

The Azency is pursuing a strategy through which major contributors to surface transportation noise will be identified and subsequently regulated. A coordinated approach is necessary because of the multitude of transportation vehicular sources which may be operat-ing at the same time and the quieting of only one type vehicle will not in itself be sufficient to adequately reduce the noise to a level the Agency believes required to protect the public health and welfare.

As indicated in the EPA Identification of Major Sources of Noise Report (39 FR 22297-99, June 21, 1974), the principal candidates for future regulatory czorts are known. On May 28, 1975, the Agency Marting the College of Martine Republication of May 28, 1975, the Agency Martine the College of Martine Republication. identified the following pieces of surface transportation equipment as major sources of noise; buses and motorcycles (40 FR 23105). Regulatory development is well underway to establish noise control standards for these two products. The levels chosen for the standards in this rulemaking are consistent with the overall requirements to quiet all vehicles in order to ultimately quiet overall traffic noise.

The Agency also intends to commence regulatory action on other surface transportation equipment in the hear future. These further actions will in-clude separate rulemaking procedures for tires and a revision to the interactic motor carrier regulations (39 FR 38208-216, October 29, 1974) requiring newly manufactured medium and heavy trucks to maintain a specified noise emission

level while operated by motor carrie engaged in interstate commerce,

S. BACKGROUND DOCUMENT

Notice of the availability of the Docment entitled "Background Document f Proposed Medium and Heavy True Noise Emission Regulations" was published in the Federal Redister on October 30, 1974 (39 FR 38338). This dominent has been substantially revised as provides the basis for the standards (a provides the basis for the standards co-tablished by this rulemaking. This no-document is entitled "Rackground Docu-ment for Medium and Heavy True Noise Emission Regulations." It is quil-lengthy, and it would be impractical publish it in its entirety in the France. Racistra. Copies may be obtained from the EPA Public Information Center (F 214), Room 2104D, Waterside Mall, 4 and M Streets SW., Washington, D. 20460

Dated: March 31, 1976.

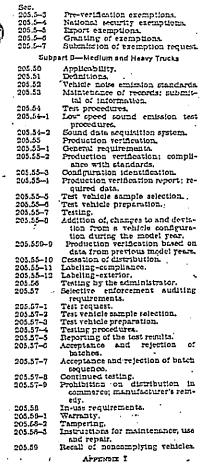
RUSSELL E. TRADI, Administrator.

40 CFR CHAPTER I is amended hadding a new Part 205, reading as for lows:

Subpart A-General Provisions

205.1 205.2 205.3 General applicability, Definitions.
Number and gender.
Inspection and monitoring. 205.4 Exemptions.

Who may request an exemption Testing exemption. 205.5-2



AUTHORITT: Sec. 6, 10, 11, 13, Pub. L. 02-574, 88 Stat. 1234 (42 U.S.C. 4905, 4909, 4910, 4912).

Subpart A-General Provisions

§ 205.1 General applicability.

The provisions of this subpart are applicable to all products for which regulations have been published under this part and which are menufactured after the effective date of such regulations.

§ 205.2 Definitions.

(a) As used in this subpart, all terms not defined herein shall have the meaning given them in the Act.

(1) "Act" means the Noise Control Act of 1972 (PL 92-574, 96 Stat, 1234).
(2) "Administrator" means the Ad-

ministrator of the Environmental Protection Agency or his authorized representative.

(3) "Agency" means the United States Environmental Protection Agency.

(4) "Export exemption" means an exemption from the probabitions of section has never been transferred to an ulti-

10(a) (1), (2), (3), and (4) of the Act, granted by statute under section 10(b) (2) of the Act for the purpose of exporting regulated products.

(5) "Notional results

(5) "National security exemption" means an exemption from the prohibitions of section 10(a) (1), (2), (3), and (5) of the Act, which may be granted under section 10(b)(1) of the Act for the

purpose of national security,
(6) "Pre-verification means a testing exemption which is applicable to products manufactured prior to product verification and required under any section of this part, and use by a manufacturer from year to year in the ordinary course of business, for product development, production method assessment, and market promotion purposes, but in a manner not involving lease or sale

(7) "Sound Level" means 20 times the logarithm to base 10 of the ratio of pressure of a sound to the reference pressure. The reference pressure is 20 micropascals (20 micronewtons per square me-ter). NOTE: Unless otherwise explicitly stated, it is to be understood that the sound pressure is the effective (rms) sound pressure, per American National

Standards Institute, Inc., 1430 Broadway, New York, New York 10013. (8) "Sound Pressure Level" means in decibels, 20 times the logarithm to the base 10 of the ratio of a sound pressure to the reference sound pressure of 20 micropascals (20 micronewions per square meter). In the absence of any modifier, the level is understood to be that of a root-mean-square pressure. The unit of any sound level is the decibel, having the unit symbol dB.

(9) "dB(A)" means the standard ab-

breviation for A-weighted sound levels in decibels.

(10) "Highway" means the streets.

roads, and public ways in any State.
(11) "Fast Meter Response" means
that the fast dynamic response of the sound level meter shall be used. The fast dynamic response shall comply with the meter dynamic characteristics in paragraph 5.3 of the American National Standard Specification for Sound Level Meters, ANSI SI.4-1971. This publication Meters, ANSI SLE-1911. This publication is available from the American National Standards Institute, Inc., 1430 Broadway, New York, New York 10018.

(12) "Person" means an individual, corporation, partnership, or association.

and except as provided in sections 11(e) and 12(a) of the Act includes any officer, employee, department, agency or instrumentality of the United States, a State or any political subdivision of a State. (13) "Reasonable assistance" means

providing timely and unobstructed access to test products or products and records required by this part, and opportunity for copying such records or testing such test products.

(14) "Ultimate purchaser" means the first person who in good faith purchases a product for purposes other than resale.

(15) "New product" means (a) a prodnot the equitable or legal title of which

mate purchaser, or (b) a product which in imported or offered for importation into the United States and which manufactured after the effective date : a regulation under section 6 or section which would have been applicable such product had it been manufacture.

in the United States,
(16) "Manufacturer" means any person engaged in the manufacturing or resembling of new products, or the impor ing of new products for resule, or what note for and is controlled by any sucperson in connection with the distribu tion of such products.

(17) "Commerce" means trade, traff. commerce, or transportation:

(I) Between a place in a State and ar

place outside thereof, or
(ii) Which affects trade, traffic, commerce, or transportation described at

subparagraph (i).
(18) "Distribute in commerce" mea-

(18) "Distribute in commerce" measell in, offer for sale in, or introduce
deliver for introduction into, commerce
(19) "State" includes the District y
Columbia, the Commonwealth of Puer
Rico, the Virgin Islands, American S:
mea, Guam, and the Trust Territory of
the Pacific Islands.
(20) "Pederal Agency" means an exective agency (as defined in section 105
Title 5. United States Code) and include

Title 5, United States Code) and including United States Postal Service.

(21) "Environmental noise" means the (27) "Environmental noise means intensity, duration, and the character of sounds from all sources.
(22) "Warranty" means the warran required by [5(c) (1) of the Act.
(23) "Tampering" means those act of the Act.

prohibited by [10(a) (2) of the Act. (24) "Maintenance instructions" "instructions" means those instruction for maintenance, use, and repair, which the Administrator is authorized to require pursuant to section 6(c)(1) of t' Act

(25) "Type I "Sound Level Mete. means a sound level meter which mee the Type I requirements of ANSI SI.
1972 specification for sound level mete.
This publication is available from University and Property Standards Institution.
Inc., 1430 Broadway, New York, New Yo

York 10018.
(26) "Testing exemption" means to exemption from the prohibitions of setion 10(a) (1), (2), (3), and (5) of the Act, which may be granted under section 10(b) (1) of the Act for the purpose cresearch, investigations, studies, demostrations, or training, but not include: national security where leass or sale of the exempted product is involved.

(27) "Product" means any transport.
tion equipment for which regulation have been promulgated under this pand includes "test product."
(28) "Test product" means any product that is required to be tested pursua

to this part.

8 205.3 Number and gender.

As used in this part, words in the singular shall be deemed to import the plural, and words in the masculic gender shall be deemed to import to feminine and vice versa, as the case m. require.



§ 205.4 Inspection and monitoring. .

(a) Any inspecting or monitoring activities conducted under this section shall be for the purpose of determining (1) whether required records are being properly maintained, (2) whether test products are being selected and prepared for testing in accordance with the provisions of these regulations, (3) whether test product testing is being conducted in accordance with these regulations, and (i) whether products being produced for distribution into commerce are as described in the production verification report.

(b) Any manufacturer subject to regulation under this part shall admit or cause to be admitted any Environmental Protection Agency (hereafter, EPA) Enforcement Officer during operating hours upon demand after having received 24 hour prier notification except as pro-vided for by paragraph (e) of this section, and upon presentation of creden-tials and authorization in writing signed by the Director, Mobile Source Enforcement Division or his designee to any of

the following:

(1) Any facility or site where any product to be distributed into commerce

is manufactured, essembled, or stored;
(2) Any facility or site where any
tests conducted pursuant to this part or
any procedures or activities connected with such tests are or were performed;
(3) Any facility or site where any test

product is present; and

(4) Any facility or site where records. reports, other documents or information required to be maintained or provided to the Administrator are located.

(c) (1) Upon admission to any facility or site referred to in paragraph (b) of this section, any EFA Enforcement Off-

cer shall be allowed:
(i) To inspect and monitor test prodnot manufacture and assembly, selection, storage, preconditioning, noise emission testing, and maintenance, and to verify correlation or calibration of test equipment;
(ii) To inspect products prior to their

distribution in commerce:

(iii) To inspect and make copies of any records, reports, documents, or information required to be maintained or provided to the Administrator under the

(iv) To inspect and photograph any part or espect of any such product and any component used in the assembly thereof that are reasonably related to the purpose of his entry.

(2) Any EFA Enforcement Officer shall be furnished by those in charge of a facility or site being inspected with such reasonable assistance as he may request to help him discharge any function listed in this section. A manufacturer is required to cause those in charge of a facility or site operated for its benefit to furnish such reasonable assistance with out charge to EPA whether or not it controls the facility.

(3) The duty to admit or cause to be admitted any EPA Enforcement Officer applies whether the facility or site is owned or controlled by the manufacturer

or by one who acts for the manufacturer and applies both to domestic and foreign manufacturers' facilities and sites. EPA will not attempt to make any inspections which it has been informed that foreign law forbids. However, if foreign law makes it impossible to do what is necessary to ensure the accuracy of data generated at a facility, no informed judgment that a product has been properly tested in accordance with these regulations can properly be based on that data It is the responsibility of the manufacturer to locate its testing and manufacturing facilities and sites in jurisdictions where this situation will not arise.

(d) For purposes of this section:
(1) "Presentation of credentials" shall

mean display of the document designating a person as an EPA Enforcement

· (2) Where test product storage areas or facilities are concerned, "operating hours" shall mean all times during which personnel other than custodial personnel are at work in the vicinity of the area or

facility and have access to it.
(3) Where facilities or areas other than those covered by paragraph (d) (2) of this section are concerned "operating hours" shall mean all times during which product manufacture or assembly is in operation or all times during which product testing and maintenance is taking place and/or production or compilation of records is taking place, or any other procedure or activity related to production verification testing, selective en-forcement audit testing or product manufacture or assembly being carried

out in a facility.
(e) Any entry without 24 hour prior written or oral notification to the affected manufacturer shall be authorized in writing by the Assistant Administrator

for Enforcement.
(f) (1) Pursuant to Section 11(d) (1) of the Act, the Administrator may issue an order to the manufacturer to cease the distribution in commerce of particular products being manufactured at a particular facility if:

(i) Any EPA Enforcement Officer is denied the access required in paragraph

(b) and (c) of this section.

(ii) Any EPA Enforcement Officer is denied "reasonable assistance" (as defined in \$ 205.2(a) (13)-).

- (2) The sanction of issuing an orderto cease distribution of products into commerce may be imposed for the reasons in subparagraph (1) and/or (ii) of this paragraph only when the infraction is substantial.
- (3) Any such order shall be issued only after notice and opportunity for a hearing.

§ 205.5 Exemptions.

the proposed test program:

§ 205.5-1 Who may request an exemp-

Any manufacturer may request an exemption provided by this subpart or exempt products as provided by \$ 205.5-5. § 205.5-2 Testing exemption.

(a) Any manufacturer requesting a testing exemption must demonstrate that

(1) Has a purpose which constitutes an appropriate basis for an exemption in accordance with section 10(b)(1) of the Act:

(2) Necessitates the granting of ar-

exemption:

(3) Exhibits reasonableness in scope;

(4) Exhibits a degree of control conconant with the purpose of the program. and the EPA's monitoring requirements. Paragraphs (b), (c), (d), and (e) below describe what constitutes a sufficient demonstration for each of the four above identified elements.

(b) With respect to the purpose of the proposed test program, an appropriate purpose is one which is consistent with one or more of the bases for exemption set forth under section 10(b) (1) of the Act, namely research, investigations, studies, demonstrations, or training, but studies, demonstrations, or training, and not including national security (see § 205.5-i). A concise statement of purpose is a required item of information.

(c) With respect to the necessity that an exemption be granted, necessity arises from an inability to achieve the

stated purpose in a practicable manner without performing a prohibited act under sections 10(a) (1), (2), (3), or (5) of the Act. In appropriate circumstances time constraints may be sufficient basis

for necessity.
(d) With respect to reasonableness, a test program must exhibit a duration of reasonable length and affect a reasonable number of products. In this regard, required items of information include: (1) An estimate of the program's du-

ration:
(2) The absolute number of products

involved; (3) The duration of the test;
(4) The ownership arrangement with

regard to the products involved in the test:

(5) The intended final disposition of the products;

(6) The means or procedure whereby test results will be recorded.

(c) Paragraph (a) of this section applies irrespective of the product's place of manufacture.

§ 205.5-3 Pre-verification exemptions.

Section 205.5-2 does not apply for preverification products. In such cases, n. request for exemption is necessary; however, the only information required is a statement setting forth the general nature of the pre-verification products program, the number of products involved and a demonstration that adequate record-keeping procedures for the control purposes will be employed.

§ 205.5-4 National security exemptions.

A manufacturer requesting a national security exemption must state the purpose for which the exemption is required and the request must be endorsed by an agency of the Federal government, charged with responsibility for national charged defense.

§ 205.5-5 Export-exemptions.

(a) A new product intended solely for export, and so labeled or marked on the

outside of the container and on the product itself, shall be exempt from the pro-hibitions of section 10(a., (1), (2), (3), and (4) of the Act.

(b) No request for an export exemption is required.

(c) It is a condition of an export exemption under section 10(b)(2) that such exemption shall be void ab initio with respect to each new product intended solely for export which is distributed in commerce for use in any State.

(d) Any manufacturer or person subject to the liabilities of section 11(a) with respect to any product, originally intended for export, but distributed in commerce for use in any State, may be excluded from the application of sec-tion 11(a) with respect to such product based upon a showing that such manufacturer:

(1) Had no knowledge of such product being distributed in commerce for use in any state; and

(2) Made reasonable efforts to ensure that such products would not be distributed in commerce for use in any State. Such reasonable efforts would include investigation, prior dealings, contract provisions, etc.

§ 205.5-6 Granting of exemptions.

(a) If upon completion of the review of an exemption request the granting of an exemption is deemed appropriate, a memorandum of exemption will be pre-pared and submitted to the manufacturer pared and submitted to the manufacturer requesting the exemption. The memorandum will set forth the basis for the exemption, its scope, and such terms and conditions as are deemed necessary to protect the public health and welfare. Such terms and conditions will generally include, but are not limited to, agreements by the applicant to conduct the exempt activity in the manufacture of the property of the second of the maintain that the conduct the exempt activity in the maintain duct the exempt activity in the manner described to EPA, create and maintain adequate records accessible to EPA at reasonable times, employ labels for the exempt products setting forth the nature of the exemption, take appropriate measures to assure that the terms nte measures to assure that the terms of the exemption are met, and advise EPA of the termination of the activity and the ultimate disposition of the products. EPA may limit the scope of any exemption by placing restrictions on time, location and duration. EPA may also withdraw the exemption at any time head upon information that the time based upon information that the public health and welfare is being

endammered. (b) Any exemption granted pursuant to paragraph (a) shall be deemed to cover any subject product only to the cover any subject product only to the extent that the specified terms and conditions are compiled with. A breach of any term or condition shall cause the exemption to be void ab initio with respect to any product. Consequently, the distribution in commerce for use of any subject product other than in strict conformity with all terms and conditions of this exemption shall constitute a violation of section 10(a) (1) and (3) of the Act, and shall render the manufacturer to whom the exemption is granted and any other person to whom the provisions

of section 10 are applicable, liable to sanction under sections 11 and 12 of the Act.

§ 205.5-7 Submission of exemption request.

Requests for exemption or further information concerning exemptions and/ or the exemption request review procedure should be addressed to:

Director, Mobile Source Enforcement Division (EN340), U.S. Environmental Protection Agency, 401 M Street SW, Washington, D.C. 20460.

Subpart B-Medium and Heavy Trucks § 205.50 Applicability.

(a) Except as otherwise provided for in these regulations the provisions of this subpart apply to any vehicle which has a gross vehicle weight rating (GVWR) in excess of 10,000 pounds, which is capable of transportation of property on a highway or street and which meets the defi-nition of the term "new product" in the

(b) The provisions of the subpart do not apply to highway, city, and school buses or to special purpose equipment which may be located on or operated from vehicles. Tests performed on vehi-cles containing such equipment may be carried out with the special purpose equipment in nonoperating condition. For purposes of this regulation special purpose equipment includes, but is not limited to, construction equipment, and plows, garbage compactors and refrig-eration equipment.

§ 205.51 Definitions.

(a) As used in this subpart, all terms not defined herein shall have the meaning given them in the Act or in other

subparts of this part.
(1) "Acceptable Quality Level" means the maximum percentage of failing vehi-cles that for purposes of sampling in-spection, can be considered satisfactory

as a process average.

(2) "Acceptance of a batch" means that the number of noncomplying vehicles in the batch sample is less than or equal to the acceptance number as determined by the appropriate sampling

plan,
(3) "Batch" means the collection of vehicles of the same category or configuration as designated by the Administrator in a test request, from which a batch sample is to be randomly drawn, and

inspected to determine conformance with the acceptability criteria.

(4) "Batch size" means the number as designated by the Administrator in the test request of vehicles of the same cate-

gory or configuration in a batch.
(5) "Batch sample" means the collection of vehicles of the same category or configuration which are randomly drawn

from a batch from which test samples are randomly drawn.
(6) "Batch sample size" means the number of vehicles of the same category or configuration in a batch sample.

(7) "Cab over axle" or "cab over engine" means the cab which contains the operator/passenger compartment is directly above the engine and front axle and the entire can can be tilted forward to permit access to the engine compart

ment.
(8) "Category" means a group of vehicle configurations which are identical

in all material aspects with respect to the parameters listed in \$ 205.55-3. (9) "Configuration" means the basic classification unit of a manufacturer's product line and is comprised of all vehicle designs, models or series which are identical in material aspects with respect to the parameters listed in § 205.55-2 of this subpart.

(10) "Acceptance of a Batch sequence" means that the number of rejected batches in the sequence is less than or equal to the acceptance number as determined by the appropriate sampling

(11) "Rejection of a Batch sequence" means that the number of rejected batches in a sequence is equal to or greater than the rejection number as determined by the appropriate sampling plan.

(12) "Capable of Transportation of Property on a street or highway" means that the vehicle:

(i) Is self propelled and is capable of transporting any material or fixed ap-paratus, or is capable of drawing a trailer or semi-trailer;

(ii) Is capable of maintaining a cruising speed of at least 25 mph over level, paved surface;

till) Is equipped or can readily be equipped with features customarily associated with practical street or highway use, such features including but not being limited to: a reverse gear and a differen-tial, fifth wheel, cargo platform or cargo enclosure, and

(iv) Does not exhibit features which render its use on a sweet or highway impractical, or highly unlikely, such fea-tures including, but not being limited to, tracked road means, an inordinate size

or features ordinarily associated with combat or tactical vehicles.
(13) "Exhaust System" means the sys-tem comprised of a combination of components which provides for enclosed flow of exhaust Fas from engine exhaust port to the atmosphere. (14) "Gross Combination Weight Rating" (GCWR) means the value speci-

fled by the manufacturer as the loaded

weight of a combination vehicle.

(15) "Gross Vehicle Weight Rating"
(GVWR) means the value specified by
the manufacturer as the loaded weight of a single vehicle.
(16) "Inspection Criteria" means the

rejection and acceptance numbers a

rejection and acceptance numbers asso-ciated with a particular sampling plan.

(17) "Model year" means the manu-facturer's annual production period which includes January 1 of such cal-endar year: Provided, that if the manu-facturer has no annual production per-riod, the term "model year" shall mean the calendar year.

(18) "Noise Control System" includes any vehicle part, component or system the primary purpose of which is to con-trol or cause the reduction of noise emitted from a vehicle.

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(19) "Noise emission test" means a test conducted pursuant to the measurement methodology specified in this subpart

"Production verification vehicle" means any vehicle selected for testing, tested or verified pursuant to the production verification requirements of this suppart.

(21) "Rejection of a batch" means the number of noncomplying vehicles in the batch sample is greater than or equal to the rejection number as determined by the appropriate sampling plan. (22) "Shift" means the regular pro-

duction work period for one group of

workers.
(23) "Test sample" means the collection of vehicles from the same entegory or configuration which is randomly drawn from the batch sample and which will receive noise emissions tests.

(24) "Failing vehicle" means that the measured emissions of the vehicle, when measured in accordance with the applicable procedure, exceeds the applicable standard.

(25) "Acceptance of a vehicle" means that the measured emissions of the vehicle when measured in accordance with the applicable procedure, conforms to the applicable standard.

(26) "Tampering" means those acts prohibited by section 10(a) (2) of the

(27) "Test sample size" means the number of vehicles of the same category or configuration in a test sample.
(28) "Test Vehicle" means a vehicle

in a test sample or a production verifi-

cation vehicle.
(29) "Vehicle" means any motor vehicle, machine or tractor propelled by mechanical power, with a gross vehicle weight rating in excess of 10,000 pounds, capable of transportation of property on a street or highway, and includes a partially or fully enclosed operator's compartment.

§ 205.52 Vehicle noise emission standards.

(a) Low Speed Sound Emission Standard. Vehicles which are manufactured after the following effective dates, shall be designed, built and equipped so that they will not produce sound, emissions in excess of the levels indicated.

Effective date Leve!

- (b) The standards set forth in para graph (a) of this section refer to the sound emissions as measured in accordance with the procedures prescribed in 1 205.5←1,2.
- (c) Every manufacturer of a new motor vehicle subject to the standards preribed in this paragraph shall, prior to taking any of the actions specified in section 10(a)(1) of the Act, comply with the other provisions of this subpart of Subpart A, as applicable,
 - (d) In-Use Standard (Reserved)
- (e) Low Noise Emission Product [Re-

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\$ 205.53 Maintenance of records; sub. \$ 205.54-1 Low speed sound emissi mittal of information.

(a) Except as otherwise provided for in this regulation the manufacturer of any new vehicle subject to any standards or procedures prescribed in this subpart shall establish, maintain and retain the following adequately or-

and retain the following adequately or-ganized and indexed records:

(1) General records: (1) Identifica-tion and description by category and configuration parameters of all vehicles composing the manufacturer's product line including the identification and description of all devices incorporated into the vehicle for the purpose of noise control and attenuation.

(ii) A description of any procedures other than those contained in these regulations used to perform noise tests on any test vehicle.

(iii) A record of the calibration of the acoustical instrumentation as is required

by \$ 205.54.
(2) Individual records for test vehicles: (i) A complete record of all noise emission tests performed (except tests performed by EPA directly), including all individual worksheets and/or other documentation relating to each test, or exact copies thereof.

- (ii) A record and description of all repairs, maintenance and other servicing performed, giving the date and time of the maintenance or service, the reason for it, the person authorizing it, and the names of supervisory personnel responsible for the conduct of the maintenance or service.
- (3) A properly filed production verification report following the format prescribed by the Administrator fulfills the requirements of paragraph (a) (1) .(i), (ii), (iii), and (a) (2) (i) of this section.
- (4) All records required to be main-tained under this part shall be retained by the manufacturer for a period of three (3) years from the production verification date. Records may be retained as hard copy or alternatively reduced to microfilm, punch cards, etc., depending on the record retention pro-cedures of the manufacturer; however, all of the information contained in the hard copy shall be retained in the alter-native method if this method is used.
- (b) The manufacturer shall, pursuant to a request made by the Adminis-trator, submit to the Administrator the following information with regard to new vehicle production:
- (1) number of vehicles, by entegory or configuration, scheduled for production for the time period designated in the request.
- (2) number of vehicles, by category or configuration, produced during the time period designated in the request.

§ 205.54 Test procedures.

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The procedures described in this and subsequent sections will be the test program to determine the conformity of vehicles with the standards set forth in § 205.52. .

test procedures.

(a) Instrumentation. The following instrumentation shall be used, when applicable.

(1) A sound level meter which ince the Type 1-requirements of ANSI SI 1971. Specification for Sound Le Meters, or a sound level meter may used with a magnetic tape recorder as or a graphic level recorder or indicat meter, providing the system meets requirements of 1 205.54-2.

(2). A sound level calibrator, The ex-

brator shall produce a sound press. level, at the microphone diaphragm, tiis known to within an accuracy of mild. The calibrator shall be checked a nually to verify that its output has

changed.

engine-speed which is accurate within ±2 percent meter reading.

(4) An anemometer or other devefor measurement of ambient wind speaccurate within ±10 percent.

(5) A thermometer for measurem of ambient temperature accurate with

±1 C.
(6) A barometer for measurement within ambient pressure accurate within percent.

(b) (1) The test site shall be such t. the truck radiates sound into a free fi over a reflecting plane. This condimay be considered fulfilled if the site consists of an open space free large reflecting surfaces, such as par' vehicles, signboards, buildings or lessides, located within 100 feet Cometers) of either the vehicle path of (2) The microphone shall be located.

50 feet ±4 in. (15.2=0.1 meter) from the centerline of truck travel and 4 id ±4 in. (1.2±0.1 meters) above the grown plane. The microphone point is defi-as the point of intersection of the hiele path and the normal to the vehpath drawn from the microphone.

The microphone shall be oriented w respect to the source so that the source strikes the disphragm at the angle which the microphone was calibrated have the flattest frequency respo-

100 Hz to 10 kHz.

(3) An acceleration point shall be tablished on the vehicle path 50 (15 m) before the microphone point.

(4) An end point shall be established.

on the vehicle path 100 feet (30 m) the acceleration point and 50 feet (15 : from the microphone point.

(5) The end zone is the last 40 f

(12 m) of vehicle path prior to the

point.
(6) The measurement area shall be triangular paved (concrete or ser-asphalt) area formed by the accelerate point, the end point, and the microph location.

(7) The reference point on the hiele, to indicate when the vehicle is any of the points on the vehicle parahall be the front of the vehicle exc. ns follows: .

"(1) If the horizontal distance from the front of the vehicle to the exhaust outlet is more than 200 inches (5.1 meters), tests shall be run using both the front and rear of the vehicle as reference

(ii) If the engine is located rearward to the center of the chassis, the rear of the vehicle shall be used as the reference

point. (8) The plane containing the vehicle nath and the microphone location (plane AECDE in Figure 1) shall be flat within

=2 inches (.05 meters).
(9) Measurements shall not be made

when the road surface is with snow, or during precipitation.
(10) Bystanders have an appreciable

influence on sound level meter readings when they are in the vicinity of the ve-hicle or microphone; therefore not more influence on sound level meter than one person, other than the observer reading the meter, shall be within 50 feet (15.2 meters) of the vehicle path or in-. strument and the person shall be directly behind the observer reading the meter, on a line through the microphone and observer. To minimize the effect of

the observer and the container of the sound level moter electronics on the measurements cable should be used between the microphone and the sound level meter. No observer shall be located within 1 m in any direction of the microphone location.

(11) The maximum A-weighted fast response sound level observed at the test site immediately before and after the test shall be at least 10 dB below the res-

ulated level.

(12) The road-surface within the test site upon which the vehicle travels, and, at a minimum, the measurements area (ECD in figure 205.1) shall be smooth concrete or amouth scaled asphalt, free

of extraneous material such as gravel.

- (13) Vehicles with diesel engines shall be tested using Number 1D or Number 2D diesel fuel possessing a cetane rating from 42 to 50 inclusive.

(14) Vehicles with gasoline engines shall use the grade of gasoline recommended by the manufacturer for use by the purchaser.

(15) Vehicles equipped with thermo-statically controlled radiator fans may be tested with the fan not operating.

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(c) Procedure; (1) Vehicle operation for vehicles with standard transmissions. Full throttle acceleration and closed throttle deceleration tests are to be used. A beginning ergine speed and proper gear ratio must be determined for use during measurements. Closed throttle deceleration tests are required only for those vehicles equipped with an ensine brake.

(i) Select the highest rear axle and/ or transmission gear ("highest gear" is used in the usual sense; it is synonymous to the lowest numerical ratio) and an initial vehicle speed such that at wideopen throttle the vehicle will accelerate from the acceleration point.

(a) Starting at no more than two-

thirds (66 percent) of maximum rated

or of governed engine speed.

(b) Reaching maximum rated or governed engine speed within the end

Without exceeding 35 mph (56

k/h) before reaching the end point.
(1) Should maximum rated or governed rom be attained before reaching the end zone, decrease the approach rpm in 100 rpm increments until maximum rated or governed rpm is attained within the end zone.

(2) Should maximum rated or governed rpm not be attained until beyond the end zone, select the next lower gear until maximum rated or governed rpm is attained within the end zone.

(3) Should the lowest geat still re sult in reaching maximum rated or governed rpm beyond the permissible on zone, unload the vehicle and/or incress the approach rpm in 100 rpm increments until the maximum rated or go: erned rpm is reached within the en

(ii) For the acceleration test, approact the acceleration point using the engine speed and gear ratio selected in par-graph (c) (1) of this section and at the acceleration point rapidly established wide-open throttle. The vehicle reference shall be as indicated in paragrap!

(b) (7), of this section. Acceleration shall be as indicated in paragrap. continue until maximum rated or go:

corned engine speed is reached.

(iii) Wheel slip which affects maximum sound level must be avoided.

(iv) If the vehicle being tested

equipped with an engine brake, it mus-also be tested as follows: Approach to microphone point at maximum rated or governed engine speed in the gear no-lected for the acceleration test. At this microphone point, close the throttle and immediately apply the engine brand fully and allow the vehicle to decelerate to one-half of maximum rated or of governments. erned engine speed. The vehicle reference shall be as indicated in paragraph (b) (7) of this section. The engine bra-

must be full on during this test.
(2) Vehicle operation for vehicle with automatic transmissions. Furthrottle acceleration and closed throts deceleration tests are to be used. Close throttle deceleration tests are requires only for those vehicles equipped with a

engine brake.

(i) Select the highest gear axle and or transmission gear (highest gear is us; in the usual sense; it is synonymous t the lowest numerical ratio; in which up or down shifting will occur und any operational conditions of the hicle during the test run. Also, selection initial vehicle speed such that a wide-open throttle the vehicle will ac colerate from the acceleration point.

Starting at two-thirds (66 pc. cent) of maximum rated or of governe

engine speed.

(b) Reaching maximum rated or generated engine speed within the end zone (c) Without exceeding 35 mph

k/h) before reaching the end point.

(1) Should maximum rated or governed rpm be attained before reaching the end zone, decrease the approach rein 100 rpm increments until maximurated or governed rpm is attained within the end zone.

(2) Should maximum rated or governed rpm not be attained until beyon the end zone, select the next lower guntil maximum rated or governed in

is attained within the end zone.
(3) Should the lowest genr still reso in reaching maximum rated or governrpm beyond the permissible end zon. unload the vehicle and/or increase () approach rpm in 100 rpm incremenuntil the maximum rated or govern rpm is reached within the end zon notwithstanding that approach englispeed may now exceed two-thirds



maximum rated or of full load governed engine speed.
(4) Should the maximum rated or gov-

erned rpm still be attained before entering the end zone, and the engine rpm during approach cannot be further lowered, begin acceleration at a point 10 feet closer to the beginning of the end zone. The approach rpm to be used is to be that rpm used prior to the moving of the acceleration point 10 feet closer to the bestining of the end zone.

(5) Should the maximum rated or governed rpm still be attained before entering the end zone, repeat the instructions in paragraph (4) until maximum rated or governed rpm is attained within the

end zone.

(ii) For the acceleration test, approach the acceleration point using the engine speed and gear ratio selected in paragraph (c) (2) (i) of this section and at the acceleration point rapidly estab-lish wide-open throttle. The vehicle ref-erence shall be as indicated in paragraph (b) (7) of this section. Acceleration shall continue until maximum rated or gov-

erned engine speed is reached.

(iii) Wheel slip which affects maximum sound level must be avoided.

(iv) If the vehicle being tested is

equipped with an engine brake, it must also be tested as follows: Approach the microphone point at maximum rated or governed engine speed in the gear se-lected for the acceleration test. At the microphone point, close the throttle, immediately apply the engine brake fully and allow the vehicle to decelerate to one-half of maximum rated or of governed engine speed. The vehicle reference shall be as indicated in paragraph (b) (7) of this section. The engine brake must be full on during this test.

(3) Measurements. (i) The meter shall be set for "fast response" and the A-

weighted network.

(ii) The meter shall be observed dur-(ii) The meter shall be observed during the period while the vehicle is accelerating or decelerating. The applicable reading shall be the highest sound level obtained for the run. The observer is cautioned to rerun the test if unreliated peaks should occur due to extraneous ambient noises. Readings shall be taken on both side of the vehicle.

(iii) The sound level associated with a ride shall be the avenue of the first two

did shall be the average of the first two pass-by measurements for that side, if they are within 2 dB(A) of each other. Average of measurements on each side shall be computed separately. If the first two measurements for a given side differ by more than 2 dB(A), two additional measurements shall be made on each side, and the average of the two highest measurements on each side, within 2 dB (A) of each other, shall be taken as the measured vehicle sound level for that side. The reported vehicle sound level shall be the higher of the two averages.

(d) General Requirements. (1) Measurements shall be made only when wind velocity is below 12 mph (19 km/hr).

(2) Proper usage of all test instru-mentation is essential to obtain valid measurements. Operating manuals or other literature furnished by the instrument manufacturer shall be referred to for both recommended operation of the instrument and precautions to be observed. Specific items to be adequately

considered are:

(i) The effects of ambient weather conditions on the performance of the instruments (for example, temperature, humidity, and barometric pressure).

(ii) Proper signal levels, terminating impedances, and cable lengths on multi-instrument measurement systems.

(iii) Proper acoustical calibration pro-cedure to include the influence of ex-tension cables, etc. Field calibration shall be made immediately before and after each test sequence. Internal call-bration means is acceptable for field use. provided that external calibration is ac-complished immediately before or after

field use.
(3) (1) A complete calibration of the instrumentation and external acoustical calibrator over the entire frequency range of interest shall be performed at range of interest shall be performed at least annually and as frequently as necessary during the yearly period to insure compliance with the standards cited in American National Standards S1.4–1071 "Specifications for Sound Level Meters" for a Type 1 instrument over the frequency range 50 Hz-10,000 Hz.

(ii) If calibration devices are utilized which are not independent of ambient pressure (e.g., a piston-phone) corrections must be made for barometric or altimetric changes according to the recom-mendation of the instrument manufac-

turer.
(4) The truck shall be brought to its normal operating temperature prior to commencement of testing, During test-ing appropriate caution shall be taken to maintain the engine at temperatures within the normal operating range.

§ 205.54-2 Sound data acquisition sys-1em.

(a) Systems employing tape recorders and graphic level resorders may be estab-lished as equivalent to a Type I—ANSI \$1.4-1971 sound level meter for use in determining compliance with this regulation by meeting the requirements of this section (1205.54-2(b)). This sound data acquisition system qualification procedure is based primarily on ANSI S6.1-1973.

(1) Performance Requirements—(1) System frequency response, It is required that the overall steady-state frequency response of the data acquisition system response of the data acquisition system shall be within the tolerances prescribed in Table 205.1 when measured in accord-ance with section (2). The tolerances in Table 205.1 are applicable to either flat or A-weighted response. (See paragraph (3) (iii)).

(ii) Detector response. To ensure that a (true) rms indication is provided, the difference between the level indicated for a 1000 Hz sinusoidal signal equivalent to a sound level of 86 dB (rms) and the level indicated for an octave band of

random noise of equal energy as the sinusoidal signal centered at 1000 Hz shall be no greater that 0.5 dB. A true rms voltmeter shall be used to determine equivalence of two input signals.

(iii) Indicating meter, If an indicating meter is used to obtain sound levels or band pressure levels, it must meet the requirements of paragraph (a) (2) and

(a) (6) (ii) of this section and the followms.

Table 205.1.—System response data

Inquesty Ownu	A-weighted renote	Tolerance (decibels)			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Re-100 lis, ab)	Plus—	k2nu-		
11.5 40.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0	9.35.25.14.96.65.296 60.232.05.13.25 1.17.17.17.17.17.17.17.17.17.17.17.17.17	11111111111111111111111111111111111111	974117777777777777777777777777777777777		

(A) The scale shall be graduated in

1 dB steps.
(B) No scale indication shall be more that 0.3 dB different from the true value of the signal when an input signal equivalent to 86 dB sound level indicates

correctly.
(C) Maximum indication for an input signal of 1000 Hz tone burst of 0.2 sec duration shall be within the range of -2 to 0 dB with respect to the steady-state indication for a 1000 Hz tone equivalent to 86 dB sound level.

(iv) Microphone. If microphone is used which has not been provided as a component of a precision sound level meter, it must be determined to meet the microphone characteristics described in IEC Publication 179, Precision Sound Level Meters.

(v) Magnetic tape recorders. No requirements are described in this document pertaining to tape recorders, except for frequency response, Generally, recorders of adequate quality to provide the frequency response performance required will also meet other minimum requirements for distortion, signal-tonoise ratio, etc.

(vi) Graphic level recorder dynamic response. When using a graphic level re-corder, it is necessary to select pen re-sponse settings such that the readings sponse serungs such that the readings obtained are statistically equivalent to those obtained by directly reading a motor which meets the "fast" dynamic requirement of a precision sound level meter indicating meter system for the range of vehicles to be tested. To ensure-statistical equivalence, at least 30 comparative observations of real test data shall be made and the average of the absolute value of the differences observed shall be less than 0.5 dB. The settings described in paragraph (a) (6) of this section likely assure appropriate dy-namic response; however, different settings may be selected on the basis of the above requirement.

(A) Use a pen writing speed of nominally 60-100 dB/sec. If adjustable, low

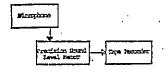
frequency response should be limited to (B) Indicated overshoot for a sud-

dealy applied 1000 Hs sinusoidal signal equivalent to 86 dB sound level shall be no more than 1.1 dB and no less than 0.1 起3.

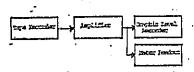
(2) Frequency response qualification procedure. (1) Typical noise measurement and analysis configurations are shown in Figures 205.2 through 205.4. The qualification procedure described herein duplicates these configurations, the missephane configurations. but with the microphone replaced by an electronic sinewave escillator. Caution abould be exercised when connecting an oscillator to the input of a sound level meter to ensure, perhaps by using a re-strictive voltage divider network, that the input is not overloaded (see § 205.54-2(Δ)2(II)).

(ii) Calibrate the oscillator to be used by measuring its output relative to the voltage which is equivalent to 86 dB sound level at each of the 27 frequencies listed in Table 205.1 using an electronic voltmeter of known calibration, Record the result in voltage level in dB re voltage corresponding to 86 dB sound level at 1000 Hz. This will describe the frequency response characteristics of the oscillator.

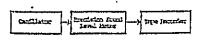
(iii) If a graphic level recorder is to be used, connect it to the oscillator out-put. If the oscillator and graphic levelrecorder can be synchronized, slowly sweep the frequency over the range of 31.5 to 12,500 Hz, recording the oscillator output. If they cannot be synchronized, record oscillator output for signals at the 27 frequencies given in Table 2051. The differences between the combined response thus obtained and the oscillator response obtained previously will describe the frequency response of the graphic level recorder.



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(iv) If visual observation of an indi-cating meter is to be used for obtaining data, the oscillator should be connected to the indicating meter input (such as the microphone input of a sound level meter) and the meter reading observed for a fixed oscillator output voltage set-ting for signals at the 27 frequencies given in Table 205.1.

(v) To check a tape recorder, connect

instruments as shown in Figure 205.4. Using a 1000 Hz tone, adjust the oscillator output level to obtain a reading 15 dB below maximum record level. If the synchronized oscillator/graphic level recorder system is to be used for analrais, record an oscillator sweep over the range of 31.5 to 12,500 Hz, using an anpropriate tape recorder input attenuator setting. Alternatively, tape-record frequency tones at the 27 frequencies given in Table 205.1. Replay the tape recordings using the setup shown in Figure 205.3. Record the data on a graphic level recorder of through visual observation of the indicating meter, Subtract the oscillator frequency response in paragraph (b) (2) of this section from the response obtained through the record-playback sequence to obtain the record/reproduce frequency response of the system except for the microphone.

(vi) To obtain the overall system fre--quency response, add the manufacturer's microphone calibration data to the response just obtained. This may be the frequency response for the specific microphone to be used, including calibration tolerances. Alternatively, use the manufacturer's "typical" microphone manufacturer's "typical" microphone response plus and minus the maximum deviation expected from "typical" including calibration tolerances. Use the microphone response curre which corresponds to the manner in which it is used in the field. It may be required to add a correction to the response curves pro-vided to obtain field response; refer to

the manufacturer's manual.

(vii) Adjustment or repair of equipment may be required to obtain response within the requirements of paragraph (a) of this section. After any adjust-ments, the system shall be requalified according to paragraph (b) of this

(3) General comments. (1) Calibrate tape recorders using the brand and type used for actual data acquisition. Differences in tape can cause an appreciable variation in the recorder/reproduce frequency response characteristics of tape

(ii) It shall be ensured that the in-strumentation used will perform within specifications and applicable tolerances over the temperature, humidity, and other environmental variation ranges which may be encountered in vehicle noise measurement works.

(iii) Qualification tests shall be performed using equipment (including cables) and recording and playback tech-niques identical with those used while recording vehicle noise. For example, if weighted sound level data are normally recorded use similar weighting and apply the tolerances of Table 205.1 to the

weighting curve for comparison with record-playback curves. Precautions should also be taken to ensure that source and lond impedances are appropriate to the device being tested. Other data acquisition systems may use any combination of microphones, sound level meters, amplifiers, tape recorders, graphic level recorders, or indicating meters. The same approach to qualifying such a system shall be taken as described in this document for the systems depicted in Figures 205,2, 205,3 and 205,4.

(b) Systems other than those specified in sections 205.54-1(a) and 205.54-2(a) may be used for establishing compliance with this regulation. In each case the system must yield sound levels which are equivalent to those produced by n sound level meter Type 1 ANSI S1.4-1971. The manufacturer bears the burden of demonstratir? such equivalence. The manufacturer shall notify the Administrator pursuant to \$\$ 205.55-4(b) (5) and 205.57-5(c) (4) of the use of such a sound data acquisition system.

§ 205.55 Production verification.

§ 205.55-1 General requirements.

(a) Every new vehicle manufactured for distribution in commerce in the United States which is subject to the standards prescribed in this subpart and exempted in accordance with

(I) Ethall be verified in accordance with the production verification procedures described in this subpart; and
(2) Shall be represented in a product

verification report, as required by \$\frac{1}{205.55}\$—i or this subpart; and \$\frac{1}{3}\$ Shall be labeled in accordance with the requirements of \$\frac{1}{205.55}\$—12 of

this support; and

(4) Shall conform to the applicable noise emission standard established in \$ 205,52 of this regulation.

(b) The requirements of paragraph (a) apply to new products at the time they first conform to the definition of vehicles in these regulations. The responsibility for complying with the requirement of paragraph (a) rests with the manufacturer of the new product at the time the product first conforms to the definition of vehicle in these regulations,
(c) Subsequent manufacturers of a

(c) Subsequent manufacturers of a new product which conforms to the definition of vehicle in these regulations when received by them from a prior manufacturer, need not fulfill the requirements of paragraph (a) (1), (2) or (3) where such requirements have already been compiled with by a prior manufacturer.

§ 205.55-2 Production version planes with standards,

(a) (1) Prior to distribution in commerce of vehicles of a specific configura-hicles must verify such configurations in accordance with the requirements of this subpart; except, that production verification of a configuration is automatically and conditionally waived by the Administrator without request by a manufacturer for a period of up to 45 consecutive

days from the date of distribution in commerce by the manufacturer of the first vehicle of that configuration in order to enable a manufacturer to distribute vehicles in commerce and thus avoid disruption of the manufacturing process: Provided, that a manufacturer conducts the necessary tests required in paragraphs (b) and/or (c) below as soon as weather conditions at a manufacturer's test facility permit after distribu-tion in commerce of the first vehicle of a configuration. Failure to test on such first suitable day will result in automatic and retroactive rescision of the waiver and will render the manufacturers liable for illegally distributing vehicles in

commerce.
(2) At the completion of any 45 day period the conditional waiver granted under paragraph (a) (1) of this section is rescinded for that configuration unless the manufacturer has complied with the requirements of paragraph (b) and/or (c) of this section as appropriate; except that upon application by a manufacturer and a showing that the weather conditions at the manufacturer test facility or other conditions beyond the control of the manufacturer made it impossible to conduct the required testing and such conditions are documented by the manufacturer and submitted with any application, the Administrator, at his option, may extend for a specified period (not to exceed 45 days), condi-tional production verification for a configuration to enable the manufacturer to comply with the requirements of paragraph (b) and/or (c) of this section or he may require that the manufacturer ship the test vehicle to the EPA test fa-

cility for testing by the Administrator.
(b) The production verification requirements with regard to each vehicle

configuration consist of:
(1) testing in accordance with 1 205.54

a vehicle selected in accordance with

1205.55-4;
(2) compliance of the test vehicle with the applicable standards when tested in accordance with 1205.54; and

(3) submission of a production veri-fication report pursuant to § 205.55—4. (c) (1) In Hen of testing vehicles of every configuration as described in para-

graph (b) of this section, the manufac-turer may elect to verify the configura-tion based on representative testing, the requirements of which consist of:

(i) Grouping configurations into a

category where each category will be de-termined by a separate combination of at least the following parameters (a manufacturer may use more param-

- cters):

 (a) Engine type.

 (1) Gasoline—two stroke cycle.

 (2) Gasoline—four stroke cycle. (3) Diesel—Two stroke cycle.
 (4) Diesel—Four stroke cycle.
 (5) Rotary—Wankel

 - Turbine.
- (7) Other. (b) Engine manufacturer.
- (c) Engine displacement. Engine configuration (e.g., L-0, (d)

(c) Series (i.e., cab design) including but not limited to conventional, cab over engine, and cab forward.

(ii) Identifying the configuration within each entegory which emits the highest sound pressure level (dBA) based on his best technical judgment and/or

emission test data;
(iii) Testing in accordance with 4 205. 54 of a vehicle selected in accordance with § 205.55-5 which must be a vehicle of the configuration which is identified pursuant to subparagraph (ii) of this paragraph as having the highest sound pressure level (estimated or actual) within the category;

(iv) Compliance of the test vehicle with applicable standards when tested in accordance with § 205.54; and (v) Submission of a production verification report pursuant to § 205.55-4.

(2) Where the requirements of paragraph (c) (1) are complied with, all those configurations contained within a cate-configurations contained within a cate-gory are considered represented by the tested vehicle and are considered to be production verified.

(3) Where the manufacturer tests a vehicle configuration which has not been determined as having the highest sound pressure level of a category, but all other requirements of paragraph (c) (1) of this section are compiled with, all those configurations contained within that category which are determined to have sound pressure levels no greater than the tested yehicle are considered to be represented by the tested vihicle and are considered to be production verified; however, a manufacturer must production verify according to the requirements of (b) (1) and/or (c) (1) of this section any configurations in the subject category which have a higher sound pressure level than the vehicle configuration tested. (d) A manufacturer may elect to pro-

duction verify using representative testing pursuant to paragraph (c) of this
section, all or part of his product Aine.
(e) The manufacturer may, at his
option, proceed with any of the following
alternatives with respect to any vehicle determined not in compliance with applicable standards.
(1) Delete that configuration from the

(1) Delete that configuration from the production verification report. Configurations so deleted may be included in a later report under \$ 205.55—4. However, in the case of representative testing a new test vehicle from another configuration must be selected and production verified according to the requirements of paragraph (c) of this section, in order to production verify the configurations represented by the non-compilant, verepresented by the non-compliant ve-

(2) Modify the test vehicle and demonstrate by testing that it meets applicable standards. All medifications and test re-sults must be reported in the production verification report. The manufacturer must medify all production vehicles of the same configuration in the same manner as the test vehicle before distribution into commerce.

(f) Upon request, by Director, Mobile facturer shall notify such Director of any operate during the normal operating

production verification testing scheduled by the manufacturer pursuant to this section so that EPA Enforcement Officers may be present and observe such testing or conduct the testing in lieu of the manufacturer.

§ 205.35-3 Configuration identification.

(a) A separate vehicle configuration shall be determined by each combination of the following parameters:

(1) Exhaust system configuration, (1)

Single vertical.

(ii) Dual vertical. (iii) Single horizontal.

(iv) Dual horizontal.

Air induction system (engine), (l) Natural.

(ii) Turbocharged. (3) Fan. (i) Diameter.

(ii) Drive,

(a) Direct.
(b) Thermostatic.
(iii) Max fan rpm.
(4) Engine manufacturer's horsepower rating.
(5) Cab characteristic. (i) Sleeper.
(iii) No characteristic.

(ii) Non sleeper, (6) Category parameters listed in § 205.55-2,

§ 205,55-4 Production verification re-port; required data.

(a) The manufacturer shall submit a production verification report to the production verification report to the Director, Mobile Source Enforcement Division (EN-340), U.S. Environmental Protection Agency, 401 M. St., S.W., Washington, D.C. 20460. A manufacturer may choose to submit separate production verification reports for different-parts of his product line.

(b) The report shall be signed by an authorized representative of the manufacturer and shall include the following:
(1) The name, location and description of the manufacturer's noise emission to the facilities which the facilities which the facilities which the facilities which the facilities are the facilities which the facilities and the facilities which the facilities are the facilities which the facilities are the facilities and the facilities which the facilities are the facilities and the facilities are the facilit sion test facilities which meet the speci-fication of § 205.54 and have been utilized to conduct testing pursuant to this sub-part b; except, that a test facility that has been described in a previous submis-sion under this subpart need not again described but must be identified as such.

(2) A description of normal predeliv-

ery maintenance procedure.

(3) A description of all vehicle configurations as determined in accordance with 1 205.55-5, to be distributed in commerce by the manufacturer including a list identifying or defining any device or element of design (including its location and method of operation) incorporated into vehicles for the purpose of noise control and attenuation including the following information for each con-

figuration:
(1) Muffler (exhaust). (a) Manu-

facturer
(b) Manufacturer part number (ii) ·Air induction system (engine), (a)

Muffler manufacturer name

(b) Muffer manufacturer part number (iii) Governed or maximum rated rpm

(iv) Any device which affects noise Source Enforcement Division, the manu- emissions from the vehicle and does not modes of the vehicle (e.g., over temperature protection)

The manufacturer may esticity the vehicle configuration description requirements of this paragraph by submitting as part of the production verification re-port a copy of his sales data literature port a copy of his sales data literature which describes his product line including options: Provided, that this literature is supplemented with any additional information to fulfill the requirements of this section. If a manufacturer elects to production verify pursuant to § 205.55–2 (c) the configuration, within each category, which is estimated to have the highest round pressure level (dBA) shall be identified. The manufacturer may estimate the sound pressure level hased estimate the sound pressure level based on his best technical judgment and/or data. The criteria used to estimate each sound pressure level shall be stated with the estimates.

- (4) the following information for each noise emission test conducted:
- (i) the completed data sheet required by \$ 205.54 for all official tests conducted in accordance with \$ 205,55-7 including, for each invalid test, the reason for invalidation.
- (ii) A complete description of any preparation, maintenance or testing which was performed on the test vehicle and which will not be performed on all other production vehicles
- (iii) The reason for replacement where a replacement vehicle was necessary, and test results, if any, for replaced vehicle.
- (5) A complete description of the sound data acquisition system if other than those specified in § 205.54-1(a) and \$ 205.54-2(a).
- (6) The following statement and endorsement: This report is submitted pursuant to section 6 and section 13 of the Noise Control Act of 1972. All testing for which data is reported herein is conducted in strict conformance with applicable regulations under 40 CFR Part 205, All the data reported herein is a true and accurate representation of such testing. All other information re-ported herein is, to the best of (company howledge, true and accurate, I

am aware of the penalties associated with violations of the Noise Control Act of 1972 and the regulations thereunder.

(authorized representative)

tion.

- Where a manufacturer elects to submit separate production verification reports for portions of his product line as provided for in paragraph (a) of this section, information provided in previ-ous reports need not be resubmitted. Except, that information necessary to up-date or make current previously sub-mitted information must be submitted.
- (d) Any change with respect to any information reported pursuant to this subpart shall be reported as soon as the information becomes available. § 205,55-5 Test vehicle sample sclee-
- (a) Test vehicles of a configuration for which production verification testins

is required by [205.55.2 shall be a rehicle of the subject configuration which has been assembled using the manufac-turer's normal production processes and will be sold or offered for sale in commerce.

(b) Should a situation arise in which the configuration to be tested consists of only rehicles with automatic transmis-

aions, they thall be tested in accordance with 1 205.5:4-1(c) (2).

(c) If the configuration to be tested consists of both automatic transmission and standard transmission vehicles, the test vehicle shall be a standard trans-mission vehicle unless the manufacturer has reason to believe that the automatic transmission vehicle emits a greater

§ 205.55-6 Test vehicle preparation.

(a) Prior to the official test, the test vehicle selected in accordance with 1 205.55-5 shall not be prepared, tested, modified, adjusted or maintained in any manner unless such adjustments, preparation, modification and/or tests are port of the manufacturer's prescribed manufacturing and inspection procedures, and are documented in the manufacturer's internal vehicle assembly and inspection procedures or unless such adjustments and/or tests are required or permitted under this subpart or are approved in advance by the Administrator. The manufacturer may perform adjustments, preparations, modification and/or tests normally performed at the port of cutry by the manufacturer to prepare the vehicle for delivery to a dealer or customer. -

Equipment or fixtures necessary to conduct the test may be installed on the vehicle: Provided, that such equipment or fixtures shall have no effect on the noise emissions of the vehicle, as de-

termined by measurement methodology.

(c) In the event of vehicle malfunction (i.e., failure to start, missiring cylinder, etc.) the manufacturer may per-form the maintenance that is necessary form the maintenance that is necessary to enable the vehicle to operate in a normal manner Provided, that such maintenance is documented and reported in the final report prepared and submitted in accordance with this subpart.

(d) No quality control, testing, assembly or selection procedures shall be used on the completed united as any portion.

on the completed vehicle or any portion thereof, including parts and subassem-biles, that will not normally be used dur-ing the production and assembly of all other vehicles of the category which will be distributed in commerce, unless such procedures are required or permitted under'this subpart.

§ 205.55-7 Testing.

(a) The manufacturer shall conduct one valid test in accordance with the test procedures specified in § 205.54. In the event a vehicle is unable to complete the emission test, the manufacturer may replace the vehicle with a vehicle of the same configuration as the replaced vehicle or a noisier configuration and will be subject to all the provisions of these regulations, Any replacement shall be reported in the production verification report including the reason for the placement.

(b) No maintenance will be perforon test vehicles except as provided by 1005.55-6. In the event a vehict-unable to complete the emission test, manufacturer may replace the vehi Any replacement vehicle will be a beduction vehicle of the same configuration. tion as the replaced vehicle or a not configuration and will be subject to the provisions of these regulations, replacement shall be reported in the 1 duction verification report including

reason for the replacement.
(c) In the event a vehicle falls to coply with the standards of this subwhen tested in accordance with the recedures specified in paragraph (a) this section, the manufacturer may to ceed in accordance with \$ 205.55-200 this support.

\$ 205.55-8 Addition of, changes to deviation from a vehicle configu-

(a) Any change to a configuration w respect to any of the parameters att. in § 205.55-3 shall constitute the ac-tion of a new and separate configurati or category to the manufacturer's piuct line.

(b) (1) When a manufacturer is:

duces a new category or configuration his product line, he shall proceed in condance with 1 205.55-2.

(2) If the configuration to be not can be grouped within a verified enter and the new configuration to the configuration. and the new configuration is estimate to have a lower sound pressure level to a previously verified configuration wit-the same category, the configuration shall be considered verified: Providthat the manufacturer submits a repursuant to 1 205.55-4 with respect such configuration.

§ 205,55-9 Production verifications and based on data from previous and verifica Yeurs.

- (a) Production verification of econfiguration will be required at the ginning of each model year except to in certain instances, the Administraupon request by the manufacturer, 1. permit the use of production verifical data for specific configurations for previous production verification repos Considerations relevant to his decis'
- are:
 (1) The level of the standard in eli for the model years in question;
 (2) Performance based on product
- verification data for previous years;
 (3) Performance based on data
- tained from selective enforcement to ing during previous model years; and
 (4) The number and type of no
- emission design changes incorporated the new models.

§ 205.55-10 Cessation of distribution

(a) If a category or configuration is found to be nonconforming with the regulations by reason of failure to properly verified, as required by \$ 205 ! 2, the Administrator may issue an orto the manufacturer to cense to distrib ... in commerce vehicles of that category



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§ 205.33-11 Labeling-compliance.

(a) (1) The manufacturer of any vehicle subject to the provisions of section 205.52 shall, at the time of manufacture, affix a permanent, legible label, of the type and in the manner described below, containing the information hereinafter provided, to all such vahicles to be distributed in commerce. The labels shall be affixed in such a manner that they cannot be removed without destroying or defacing them, and shall not be affixed to any equipment which is easily de-

tached from such vehicle.

(2) A label shall be permanently attached, in a readily visible position, in

the operator's comparament.

The label shall contain the following information lettered in the English language in block letters and numerals, which shall be of a color that contracts with the background of the label:

(1) The label heading: Vehicle Noise Emission Control Information;

(ii) Full corporate name and trade-mark of manufacturer;

(iii) Date of manufacture; (iv) The statement;

(II) The statement:

. This Vehicle Conforms to U.S. EPA Regulations for Noise Emission Applicable to Medium and Heary Truchs.
The following acts or the causing thereof by any person are prohibited by the Noise Control Act of 1972; (A) The removal or rendering inoperative, other than for purposes of maintenance, repair, or replacement, of any noise control device or element of design (listed in the owner's manual) incorporated into this vehicle in compliance with the Noise Control Act; (E) The use of this vehicle after such device or rendered inoperative.

(v) Vehicles manufactured solely for use outside the United States shall be clearly labeled "For Export Only."

§ 205.55-12 Labeling-Exterior served).

§ 205.56 Testing by the administrator.

(a) (1) The Administrator may require that any vehicle to be tested pursuant to these regulations or other vehicles be submitted to him, at such place and time as he may designate for the purpose of conducting tests in accordance with the test procedures described in 1 205.54 to determine whether such vehicles con-form to applicable regulations.

(2) The Administrator may specify that he will conduct such testing at the manufacturer's facility, in which case instrumentation and equipment of the type required by these regulations shall be made available by the manufacturer for test operations. The Administrator

may conduct such tests with his own equipment, which shall equal or exceed the performance specifications of the instrumentation of equipment specified by the Administrator in these regulations (b) (1) If, based on tests conducted by

the Administrator, the Administrator de-termines that the lest facility is inappropriate for conducting the tests required by this part he will notify the manufacturer in writing of his determination and the reasons therefor.

(2) After the notification in paragraph

(b) (1) of this section, no data derived from the subject test facility will be acceptable for the purpose of this part and the Administrator may issue an order to the manufacturer, with respect to the vehicle category or configuration in question to cease to distribute in commerce vehicles of such category or configuravehicles of such category or configura-tion: Except, that any such order thall be issued only after notice and oppor-tunity for a hearing. Such notification may be included in any notifications under paragraph (b) (1) of this section. A manufacturer may request that the Administrator grant a hearing. Request shall be made not later than fifteen (15) days, or other such period as may be al-lowed by the Administrator, subsequent to notification of the Administrator's intent to issue an order to cease to dis-

tribute.
(3) The manufacturer may request in writing that the Administrator reconsider his determination in paragraph (b) (1) of this section based on data or in-formation which indicates that changes have been made to the test facility and such changes have resolved the reasons

for disqualification.

(4) The Administrator will notify the manufacturer of his determination with regard to the requalification of the test facility within 10-days of the manufacturer's request for reconsideration pur-suant to paragraph (b)(3) of this

(c) (1) Whenever the Administrator conducts a test on a test vehicle the re-sults of that test shall constitute the of-ficial test data for that vehicle.

(2) The Administrator may accept the manufacturer's test data in lieu of his data upon a showing by the manufacturer that the data, acquired under paragraph (a) are erroneous and that the manufacturer's data are correct.

§ 205.57 Selective enforcement auditing requirements.

§ 205,57-1 Test request.

(a) The Administrator will request all testing under this subpart by means of test request addressed to the manufacturer.

(b) The test request will be signed by the Assistant Administrator for Enforcement or his designee. The test request will be delivered by an EPA Enforce-ment Officer to the plant manager or other responsible official as designated by the manufacturer.

(c) The test request will specify the vehicle category or configuration se-

lected for testing, the batch selected for testing, the batch size, the manufac-turer's plant or storage facility from which the vehicles must be selected, the time at which a vehicle must be selected The test request will also provide for situations in which the selected config-uration or category is unavailable to testing. The test request may include at alternative category or configuration selected for testing in the event that vehi cles of the first specified category or configuration are not available for testing because the vehicles are not being manufactured at the specified plant and/ are not being manufactured during the specified time or not being stored at the specified plant or storage facility.

(d) Any manufacturer shall, upon receipt of the test request, select and term a batch sample of vehicles from two con-secutively produced batches of the vehicle category or configurations specific in the test request in accordance w! these regulations and the conditionspecified in the test request.

(e)(1) Any testing conducted by the manufacturer pursuant to a test reque shall be initiated within such period is specified within the test request: E cept, that such initiation may be delay for increments of 24 hours or one but ness day where ambient test site weath conditions in any 24-hour period do a permit testing: Provided, that the a bient test site weather conditions ? that period are recorded.

(2) The manufacturer shall comple emission testing on a minimum of fivehicles per-day unless otherwise pi-vided for by the Administrator or unle ambient test site conditions only permathe testing of a lesser number: Provide that ambient test site weather condition

that ambient test site weather conditio-for that period are recorded.

(3) The manufacturer will be allow 24 hours to ship vehicles from a hat-sample from the assembly plant to the testing facility if the facility is not.) cated at the plant or in close proximate to the plant: Except, that the Admin trator may approve more time having approve more time have upon a request by the manufacturer a companied by a satisfactory justification (f) The Administrator may issue

order to the manufacturer to cease distribute into commerce vehicles of specified category or configuration bet manufactured at a particular facility

The manufacturer refuses to coply with the provisions of a test requisioned by the Administrator pursuant this section: or

The manufacturer refuses to co ply with any of the requirements of the section.

etion.
(g) A cease-to-distribute order al not be issued under paragraph (f) this section if such refusal is caused conditions and circumstances outside control of the manufacturer which r ders it impossible to comply with the prisions of a test request or any of requirements of this section. Such to ditions and circumstances shall include but are not limited to, any uncontrolled factors which result in the tempor

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inavailability of equipment and personnel needed to conduct the required tests. juch as equipment break-down or failure or illness of personnel, but shall not in-clude failure of the manufacturer to aderectely plan for and provide the equip-and personnel needed to conduct

. . .

the tests. The manufacturer will bear the burden of establishing the presence of ne conditions and circumstances re-

ruired by this paragraph.

(h) Any such order shall be issued only after a notice and opportunity for hearing.

i 205.52-2 Test vehicle sample selection.

(a) Vehicles comprising the batch ample which are required to be tested sursuant to a test request in accordance rith this subpart will be selected in the namer specified in the test request from batch of vehicles of the category or configuration specified in the test re-uest. If the test request specifies that he vehicles comprising the batch sample nust be selected randomly, the random election will be achieved by sequentially numbering all of the vehicles in the satch and then using a table of random the batch and then using a table of random the satch and then using a table of random tables. umbers to select the number of vehicles s specified in (c) of this section based n the batch size designated by the Ad-inistrator in the test request. An alemative random selection plan may be sed by a manufacturer: Provided, that sed by a manufacturer: Provined, that uch a plan is approved by the Adminstrator. If the test request does not pecify that test vehicles must be ranomly selected, the manufacturer shall elect test vehicles consecutively. The wisions of sections 205,55(b) and (c) also pertain to this section.

(b) The Acceptable Quality Level is 10 ercent. The appropriate sampling plans ssociated with the designated AQL are mained in Appendix I, Table II.

(c) The appropriate batch sample size

till be determined by reference to Apendix I, Table I and II, A code letter is btsined from Table I based on the batch ze designated by the Administrator in test request. The batch sample size will e obtained from Table II. The paten imple size will be equal to the maximum amulative sample size for the appro-riate code letter obtained from Table I lus an additional 10 percent rounded off

the next highest number.

(d) If the test request specifies that thickes comprising the batch sample just be selected randomly, individual shicles comprising the test sample it be randomly selected from the batch imple using the same random selection lan as in paragraph (a) of this section. est cample size will be determined by atering Table II.

(e) The test vehicle of the category or onfiguration selected for testing shall ave been assembled by the manufacirer for distribution in commerce using ie manufacturer's normal production rocess.

(f) Unless otherwise indicated in the at request, the manufacturer will select tch sample from the production test request, of the category or configura-

tion specified in the test request,
(g) Unless otherwise indicated in the test request, the manufacturer shall se-lect the vehicles designated in the test

request for testing.
(h) At their discretion, EPA Enforcement Officers, rather than the manufac turer, may select the vehicles designated in the test request.

(i) The manufacturer will keep on hand all vehicles in the batch sample until such time as the batch is accepted or rejected in accordance with § 205.37-6: Except, that vehicles actually tested and found to be in conformance with these regulations need not be kept.

§ 205.57-3 Test vehicle preparation.

(a) Prior to the official test, the test vehicle selected in accordance with \$ 205.57-2 will be prepared in accordance with 1 205.55-6.

§ 205.57-4 Testing procedures.

(E) The manufacturer shall conduct one valid test in accordance with the test procedures specified in § 205.54 of this subpart for each vehicle selected for testing pursuant to this subpart.

(b) No maintenance will be performed on test vehicles except as provided for \$ 205.57-3. In the event a vehicle is unable to complete the emission test, the manufacturer may replace the vehicle.
Any replacement vehicle will be a production vehicle of the same configurarandomly selected from the batch sample and will be subject to all the provisions of these regulations.

§ 205.57-5 Reporting of the test results.

(a) (1) The manufacturer shall submit a copy of the test report for all testing conducted pursuant to 1205.57 at the conclusion of each 24-hour period during which testing is done.

(2) For each test conducted the manufacturer will provide the following in-

formation: (i) Configuration and category identi-

(i) Configuration and category identification where applicable;
(ii) Year, make, essembly date, and model of vehicle;
(iii) Vehicle certal number; and
(iv) Test results by serial numbers.
(3) The first test report for each batch cample will contain a listing of all serial numbers in that batch.
(b) In the case where an EPA Enforcement Officer is present during test-

forcement Officer is present during test-ing required by this subpart, the writ-ten reports requested in paragraph (a) of this section may be given directly to

the Enforcement Officer.

(c) Within 5 days after completion of testing of all vehicles in a batch sample the manufacturer shall submit to the Administrator a final report which will include the information required by the test request in the format stipulated in the test request in addition to the follow-

(1) The name, location, and description of the manufacturer's emission test facilities which meet the specifications of \$ 205,54 and were utilized to conduct testaton, next scheduled after receipt of the ing reported pursuant to this section; inspect consecutive batches until the

Except, that a test facility that has been described in a previous submission under this subpart need not again be described

but must be identified as such.
(2) A description of the random vehicle selection method used, referencing any tables of random numbers that were used, name of the person in charge of the random number selection. If the vehicle test request specifies a random ve-

hicle selection.
(3) The following information for each noise emission test conducted.
(1) The completed data sheet required

1 205.54 for all noise emission tests including: for each invalld test, the reason for invalidation.

(ii) A complete description of any modification, repair, preparation, main-tenance, and/or testing which was per-formed on the test vehicle and will not be performed on all other production ve-

hicles.
(iii) The reason for the replacement where a replacement vehicle was author-

the test results for the replaced vehicles.

(4) A complete description of the sound data acquisition system if other than those specified in sections. 205.54-1

(a) and 205.54-2(a).
(5) The following statement and endorsement: "This report is submitted pursuant to section 6 and section 13 of the Noise Control Act of 1972. All testing for which data is reported herein was conducted in strict conformance with applicable regulations under 40 CFR 205 et see, All the data reported herein is a true and accurate representation of such testing. All other information reported

knowledge, true and accurate. I am aware of the penalties associated with viola-tions of the Noise Control Act of 1972 and the regulations thereunder

(authorized representative)

§ 205.57-6 Acceptance and rejection of batches.

(a) The batch from which a batch sample is selected will be accepted or rejected based upon the number of falling vehicles in the batch sample. A sufficient number of test samples will be drawn from the batch sample until the cumu-lative number of failing vehicles is less than or equal to the acceptance number or greater than or equal to the rejection number appropriate for the cumulative number of vehicles tested. The accept-ance and rejection numbers listed in Appendix I, Table II at the appropriate code letter obtained according to § 205.57-2 will be used in determining whether the acceptance or rejection of a batch has

(h) Acceptance or rejection of a batch takes place when the decision that a vehicle is a failing vehicle is made on the last vehicle required to make a decision under paragraph (a) of this section.

§ 205.57-7 Acceptance and rejection of hatch sequence.

(a) The manufacturer will continue to

batch exquence is accepted or rejected based upon the number of rejected batches. A sufficient number of consecutive batches will be inspected until the cumulative number of rejected batches itself to the sequence acceptance number or greater than or equal to the sequence number or greater than or equal to the sequence rejection number appropriate for the cumulative. appropriate for the cumulative number of batches inspected. The acceptance and relection numbers listed in appendix I. Table III at the appropriate code letter obtained according to 1205.57-2 will be used in determining whether the acceptance or rejection of a batch sequence has occurred.

(b) Acceptance or rejection of a batch sequence takes place when the decision that a vehicle is a feffing vehicle is made on the last vehicle required to make a decision under paragraph (a) of this

(c) If the batch sequence is accepted, the manufacturer will not be required to perform any additional testing on vehicles from subsequent batches pursuant to the initiating test request. (d) The Administrator may terminate

testing earlier than required in para-graph (b) based on a request by the manufacturer accompanied by voluntary cassation of distribution in commerce. from all plants, of vehicles from the con-figuration in question: Provided, that nguranon in question: Provided, that once production is relatitated the manufacturer must take the scion described in § 203.57-9 (a) (1) and (a) (2) prior to distribution in commerce of any vehicles from any plant of "he vehicle extegory of configuration in question.

\$ 205.57-0 Continued testing.

(a) If a batch sequence is rejected in ecordance with paragraph (b) of \$205.57-7, the Administrator may require continued 100 percent testing with respect to all vehicles of that entegory or

configuration produced at that plant.

(b) The Administrator will notify the manufacturer in writing of his intent to require any 100 percent testing of vehicles pursuant to paragraph (a) of this

(c) Any tested vehicle which dem-onstrated conformance with the ap-plicable standards may be distributed into commerce.

(d) Any imowing distribution into commerce of a Vehicle which does not comply with the applicable standards is a prohibited act.

§ 205.57-9 Prohibition on distribution in commerce; manufacturer's rem-

(a) Once 100 percent continuous testing has been instituted on a category or configuration pursuant to § 205.57-3 the manufacturer must take the following actions before the Administrator will consider discontinuing such testing:

(1) Submit a written report to the Administrator which identifies the reason for the noncompliance of the vehicles, describes the problem and describes the problem and describes the proposed quality control and/or quality assurance remedies to be taken by the manufacturer to correct the problem or

tohows the requirements for an engineering change pursuant to section 205.55-9; and

(2) Demonstrates that the specified vehicle entegory or configuration com-plies with the applicable emission standards by testing vehicles from two consecutively produced hatches of that vehicle category or configuration in ac-cordance with these regulations and the conditions specified in the initial test re-

quest.
(b) Any rehicle failing the prescribed
noise emission tests conducted pursuant
and note emission tests conducted pursuant in commerce until necessary acquistments or repairs have been made and the vehi-cle passes a retest.

(c) No vehicles of a rejected batch which are still in the hands of the manufacturer may be distributed in commerce unless the manufacturer has demonstrated to the satisfaction of the Administrator that such vehicles do in fact conform to the regulations: Except, that any vehicle that has been tested and does, in fact, conform with these regula-tions may be distributed in commerce.

§ 205.53 In use requirements.

§ 205.58-1 Warranty.

(a) The vehicle manufacturer who is required to production verify under this part shall include in the owner's manual or in other information supplied to the ultimate purchaser the following statement:

Noise Emissions Warranty

More Emissions Wereautt
The manufacturer warrants to the first
person who purchases this vehicle for purposes other than resale and to each subsequent purchases that this vehicle was destigned, built and equipped to conform
at the time of sale to such first purchases
with all applicable U.S. EPA noise control
regulations.
This warranty is not limited to any particular part, component or system of the
vehicle which, at the time of sale to such
in any part, component, or system of the
vehicle which, at thetime of sale to fuch
first purchases, caused noise emission levels
to enceed Federal standards are covered by
this warranty for the life of the vehicle.

(b) Not later than the date of submiss.

(b) Not later than the date of submis-(b) Not later than the date of submission of the product verification report required by \$ 205.55—1, the manufacturer thall submit to the Administrator two (2) copies of the written noise emission warranty required by paragraph (a) of this section and two (2) copies of all other information provided to the ultimate purchaser which could reasonably as constraint as impacting on the he construed as impacting on the

warranty.
(c) Not later than ten (10) days after (c) NOT later than ten try mays after dissemination, the manufacturer shall submit two (2) representative copies of all information of a general nature, or modifications thereto, which is provided to dealers, zone representatives, or other agents of the manufacturer regarding the administration and applica-tion of the poise emission warranty. Information regarding noise emission warranty claims which is provided to a dealer or representative in response to a particular warranty claim or dealer inquiry is not considered to be inform of a general nature, if such information not receive broad dissemination

dealers,
(d) All information required to be warded to the Administrator pure to this section shall be addressed

Director, Mobile Source Emforcement sion (EN-340), U.S. Environmental tection Agency, 401 M St. S.W., Waston, D.C. 20460.

§ 205.58-2 Tampering. .

(a) For each model year and for configuration of vehicles covered by part, the menufacturer shall subm the Administrator a list of those which, in the manufacturer's estimamight be done to the vehicle in un-more than an occasional basis, and sult in an increase in noise emis-above the standards prescribed in tion 205.52. The manufacturer sig-indicate, wherever possible, the am-

of this increase in noise level.
(b) The above information shall submitted to the Administrator wis adequate time prior to the introduc into commerce of each configuration allow for the development and primof tampering lists, as provided in preparate (c) and (d), below.

(c) On the bests of the above infor-tion, the Administrator will develop r of acts which, in the Administrational management, constitute the removal rendering inoperative, other than purposes of maintenance, repair, or placement, of noise control device: elements of design of the vehicle. list shall be provided to the manu-turer and may be updated from time time. The list shall be included in statement to the ultimate purchase required by paragraph (d) (2) of this tion. If the list is not provided by Administrator within 30 days of the days on which the information required paragraph (a) of this section is sentited the manufacturer shall incomly the statement in paragraph (d) of this section until such time as the has been provided and the owner's ne-ual is reprinted for other purposes.

(d) The manufacturer shall include the owner's manual the following in matlan:

(1) The statement:

TAMPIADIO WITH NOISE CONTROL STRITE . PROMOTED

Frommers

Federal law prohibits the following actition causing thereof: (1) The remove rendering inoperative by any person of that for purposes of maintenance repair replacement, of any device or element of man incorporated into any new vehicle the purpose of noise control prior to its or delivery to the illimate purchases while it is in use, or (2) the use of vehicle after such device or element of sign has been removed or rendered ino, attre by any person.

(2) The statement:

Among those acts presumed to constitution to the acts listed below.

immediately following this statement the manufacturer shall include the

developed by the Administrator under paragraph (c) of this section. (e) Any act included in the list pre-

(e) Any act included in the list pre-pared pursuant to paragraph (c) is pre-sumed to constitute tempering; however, in any case in which a proscribed act has been committed and it can be shown that such act resulted in no increase in the noise level of the vehicle or that the vehicle still meets the noise emis-sion standard of § 205.52, such act will not constitute tampering. (f) The provisions of this section are not intended to preclude any State or local jurisdiction from adopting and en-forcing its own prohibitions against the

forcing its own prohibitions against the removal or rendering inoperative of noise control systems on vehicles subject to

this part.
(g) All information required by this section to be furnished to the Administrator shall be sent to the following address:

Director, Mobile Source Enforcement Division (EN-340), U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20400.

§ 205.58-3 Instructions nance, use and repair.

(a) (i) The manufacturer shall provide to the ultimate purchaser of each vehicle covered by this subpart written instructions for the proper maintenance, use and repair of the vehicle in crier to provide reasonable assurance of the elimination or minimization of noise emisters described in the order to the construction of th sion degradation throughout the life of the vehicle.

the vehicle.

(2) The purpose of the instructions is to inform purchasers and mechanics of those acts necessary to reasonably assure that degradation of noise emission level is eliminated or minimized during the life of the vehicle. Manufacturers should prepare the instructions with this purpose in mind. The instructions should be clear and, to the extent practicable, written in nontechnical language.

written in nontechnical language. (3) The instructions must not be used (3) The instructions must not be used to secure an unfair competitive advantage. They should not restrict replacement equipment to original equipment or service to dealer service. Manufacturers who so restrict replacement equipment should be prepared to make public any performance specifications on such

equipment.
(b) For the purpose of encouraging proper maintenance, the manufacturer shall provide a record or log book which thall contain a schedule for the perform-ance of all required noise emission con-trol maintenance. Space shall be pro-vided in this record book so that the pur-chaser can note what maintenance was

chaser can note what maintenance was done, by whom, where and when.

(c) Not later than the date of submission of the production vertification report required by £ 205.55-4, the manufacturer shall submit to the Administrator two (2) copies of the maintenance instructions (including the record book) required by paragraphs (a) and (b) of this section.

(d) (1) The Administrator will require modifications to the instructions if they

are not both necessary and reasonable, (2) The manufacturers may file a petition for review of such modifications.

(3) The manufacturer's proposed in-(3) The manufacturers proposed instructions shall be provided to the consumer pursuant to 1 205.58-3(a) (1) pending review of the proposed instructions by the Agency.

(e) Information required to be submitted to the Administrator pursuant to this section shall be sent to the following address;

Director, Mobile Source Enforcement Division (EN-340), U.S. Environmental Protection Agency, 401 M St., SW., Washington, D.C. 20460.

Six copies of all submissions are required. § 205.59 Recall of noncomplying vehicles.

(a) Pursuant to section 11(d) (1) of the Act, the Administrator may issue an order to the manufacturer to recall and repair or modify any vehicle distributed in commerce not in compilance with this subpart.

(b) A recall order issued pursuant to this section shall be based upon a determination by the Administrator that vehicles of a specified category or configuration have been distributed in commerce

which do not conform to the regulations. Such determination may be based on:

Such determination may be based on:

(1) A technical analysis of the noise emission characteristics of the category or configuration in question; or

(2) Any other relevant information, including test data.

(c) For the purposes of this section, noise emissions may be measured by any test prescribed in § 205.54 for testing prior to sale or any other test which has been demonstrated to correlate with the been demonstrated to correlate with the prescribed test procedure,

(d) Any such order shall be issued only after notice and an opportunity for a hearing.

(e) All costs, including labor and parts, associated with the recall and repair or modification of non-complying vehicles under this section shall be borne

by the manufacturer.

(f) This section shall not limit the discretion of the Administrator to take any, other actions which are authorized by the Act.

APPENDER 1.

TABLE 1 .- Sample size code letters

	Natch size	Code	letter ·-
8 to 15 16 to 25		 B	

TABLE II .- Sampling plans for inspecting butches

Sample size code letter	Test sample	Test sample	Cumulative	Batch inspection criteria			
		Rite	site	Acceptance No.	Rojection No		
	151	+Photococco) 1 1				

Batch acceptance not permitted at this sample site.

Table III .- Batch sequence plans . .

Sample size code letter		Number of	Onmalente	•	Sequence inspection criteria		
		batchas	batches of		Acceptance No.	Bejection No.	
				27.4		· (r)	
				334	1	w	
				10	- 3		
		•		446	, j	• .	
ı				iĝ		• •	
	+			6	1 2		

l Batch sequence acceptance not permitted for this number of batches.

Batch sequence rejection not permitted for this number of batches.

ERRATA SHEET

In the April 13, 1976, <u>Federal Register</u>, page 15556, § 205.58-1 (a) paragraph 3, was misprinted. A correction will be published within the week. The paragraph should read:

This warranty is not limited to any particular part, component or system of the vehicle. Defects in the design, assembly, or in any part, component, or system of the vehicle which, at the time of sale to such first purchaser, caused noise emission levels to exceed Federal standards are covered by this warranty for the life of the vehicle."