

(b) Plan view diagrams of non-standard test sites are shown in Figures 3 and 4. Figure 3 illustrates a test site which is larger than a standard test site and is based upon a 60-foot (18.3 m) distance between the microphone location point and the microphone target point. (See §325.79(b)(1) for an example of the application of the correction factor to a sound level reading obtained at such a site.) Figure 4 illustrates a test site which is smaller than a standard test site and is based upon a 35-foot (10.7 m) distance between the microphone location point and the microphone target point. (See §325.79(b)(2) for an example of the application of the correction factor to a sound level reading obtained at such a site.)

**§ 325.79 Application of correction factors.**

(a) If two correction factors apply to a measurement they are applied cumulatively.

(b) The following examples illustrate the application of correction factors to sound level measurement readings:

(1) *Example 1—Highway operations.* Assume that a motor vehicle generates a maximum observed sound level reading of 86 dB(A) during a measurement in accordance with the rules in subpart D of this part. Assume also that the distance between the microphone location point and the microphone target point is 60 feet (18.3 m) and that the measurement area of the test site is acoustically “hard.” The corrected sound level generated by the motor vehicle would be 85 dB(A), calculated as follows:

86 dB(A)	Uncorrected reading
+1 dB(A)	Distance correction factor
-2 dB(A)	Ground surface correction factor
<hr/>	
85 dB(A)	Corrected reading

(2) *Example 2—Stationary test.* Assume that a motor vehicle generates maximum sound level readings which average 88 dB(A) during a measurement in accordance with the rules in subpart E of this part. Assume also that the distance between the microphone location point and the microphone target point is 35 feet (10.7 m), and that the measurement area of the test site is acoustically “soft.” The corrected sound level generated by the motor vehicle would be 87 dB(A), calculated as follows:

88 dB(A)	Uncorrected average of readings
-3 dB(A)	Distance correction factor
+2 dB(A)	Ground surface correction factor
<hr/>	
87 dB(A)	Corrected reading

**Subpart G—Exhaust Systems and Tires**

**§ 325.91 Exhaust systems.**

A motor vehicle does not conform to the visual exhaust system inspection requirements, 40 CFR 202.22, of the Interstate Motor Carrier Noise Emission Standards, if inspection of the exhaust system of the motor vehicle discloses that the system—

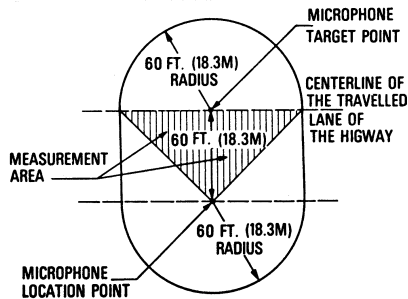


Figure 3  
NON-STANDARD TEST SITE;  
(60 FT (18.3M) DISTANCE BETWEEN  
MICROPHONE LOCATION AND TARGET POINTS)

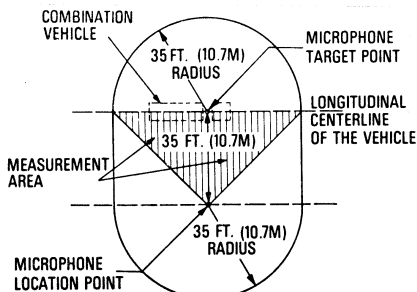


Figure 4  
NON-STANDARD TEST SITE;  
(35 FT (10.7M) DISTANCE BETWEEN  
MICROPHONE LOCATION AND TARGET POINTS)

**§ 325.93**

(a) Has a defect which adversely affects sound reduction, such as exhaust gas leaks or alteration or deterioration of muffler elements, (small traces of soot on flexible exhaust pipe sections shall not constitute a violation of this subpart);

(b) Is not equipped with either a muffler or other noise dissipative device, such as a turbocharger (supercharger driven by exhaust gases); or

(c) Is equipped with a cut-out, bypass, or similar device, unless such device is designed as an exhaust gas driven cargo unloading system.

**§ 325.93 Tires.**

(a) Except as provided in paragraph (b) of this section, a motor vehicle does not conform to the visual tire inspection requirements, 40 CFR 202.23, of the Interstate Motor Carrier Noise Emissions Standards, if inspection of any tire on which the vehicle is operating discloses that the tire has a tread pattern composed primarily of cavities in the tread (excluding sipes and local chunking) which are not vented by grooves to the tire shoulder or circumferentially to each other around the tire.

(b) Paragraph (a) of this section does not apply to a motor vehicle operated on a tire having a tread pattern of the

**49 CFR Ch. III (10-1-05 Edition)**

type specified in that paragraph, if the motor carrier who operates the motor vehicle demonstrates to the satisfaction of the Administrator or his/her designee that either—

(1) The tire did not have that type of tread pattern when it was originally manufactured or newly remanufactured; or

(2) The motor vehicle generates a maximum sound level reading of 90 dB(A) or less when measured at a standard test site for highway operations at a distance of 15.3 meters (50 feet) and under the following conditions:

(i) The measurement must be made at a time and place and under conditions specified by the Administrator or his/her designee.

(ii) The motor vehicle must be operated on the same tires that were installed on it when the inspection specified in paragraph (a) of this section occurred.

(iii) The motor vehicle must be operated on a highway having a posted speed limit of more than 56.3 kph (35 mph).

(iv) The sound level measurement must be made while the motor vehicle is operating at the posted speed limit.

[40 FR 42437, Sept. 12, 1975, as amended at 60 FR 38743, July 28, 1995]