Regulation 15.70  SOUND MEASUREMENT PROCEDURES

15.70.001  Scope of regulations.
A. Except as otherwise provided in Anchorage Municipal Code 15.70 and in the other test procedures referred to in this section, Sections 15.70.002–15.70.004 of these regulations establish general practices and procedures pursuant to Anchorage Municipal Code 15.70.020.D and 15.70.040.B.1 for the measurement of all sources of sound by noise control officers or any other persons charged with the enforcement of Anchorage Municipal Code 15.70.

B. Sections 15.70.005–15.70.010 of these regulations establish practices and procedures for the 50-foot pass-by test for measurement of noise emissions from motor vehicles.

C. Sections 15.70.011–15.70.013 of these regulations establish practices and procedures for the 20-inch stationary test for measurement of noise emissions from motor vehicles.

D. Sections 15.70.014–15.70.017 of these regulations establish practices and procedures for the 25-foot stationary test for measurement of noise emissions from motor vehicles.

(AR No. 82-148)
Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.002  Instruments.
A. All sound level meters shall conform to American National Standards Institute (ANSI) number S1.4-1971. A type II specification is the minimum requirement for the sound level meters.

B. All octave band filter sets shall conform to American National Standards Institute (ANSI) number S1.11-1966. Type O class II is the minimum requirement for octave band filter sets.

C. Impulse (impact) sound measurement instruments shall conform to American National Standards Institute (ANSI) number S1.4-1971. A type II specification is the minimum requirement for sound level meters with a peak detector circuit.
Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.003 Personnel.

Personnel conducting sound measurements shall have been trained and experienced in the current techniques and principles of sound measurement and in the selection and operation of sound measuring instrumentation appropriate to the measurements being taken.

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.004 General sound level measurement procedures.

A. Except as otherwise provided in other test procedures set forth in these regulations the operator shall follow the procedures described in this section for the measurement of noise emissions from all stationary and mobile sources regulated by Anchorage Municipal Code 15.70.

B. The operator shall calibrate the sound level meter immediately prior to use and at intervals not exceeding two hours when the instrument is used for more than a two-hour period, using the procedures described in factory instruction manuals.

C. The operator shall check the batteries in both the meter and the calibrator before calibration.

D. The operator shall set the instrument to the correct level range, weighting scale and meter response, place the calibrator on the microphone of the meter and adjust the output indicated on the meter to the correct calibration level as described in the factory instruction manuals.

E. At least once each year every sound level meter and calibrator shall receive laboratory calibration in accordance with the manufacturer's specifications. This calibration shall be traceable to the National Bureau of Standards.

F. Except as otherwise provided in other test procedures set forth in these regulations, the operator may choose a measurement site at any point on or within the real property boundary of any property that is affected by the noise source in question or at or within an adjacent real property boundary. In general the operator shall make measurements at points where the noise level is greatest. The operator should use an adequate number of different measurement locations to determine if there is a violation of Anchorage Municipal Code 15.70 and the extent of any such violation. No measurement shall be made within ten feet of any sound-reflective surface sufficiently large to cause inaccuracies in measurement.

G. Except as otherwise provided in other test procedures set forth in these regulations, the sound level meter or microphone may be either hand held or mounted on a tripod four feet or more above the ground. A microphone extension cable may be used. The microphone shall be oriented in accordance with the manufacturer's instructions.

H. The operator shall not make measurements when the wind exceeds 12 miles per hour. A
wind screen shall always be in place on the microphone. Measurements may be taken when precipitation is falling if the microphone is adequately protected. Measurements shall not be taken when the outside temperature is less than ten degrees Celsius.

I. The operator shall use the fast characteristic for determining if a steady sound exists and for any measurement where the meter is required to follow rapid changes in sound level excluding impulsive noise. The operator shall use the slow characteristic for all other measurements described in these procedures except impulse measurements.

J. The operator shall make A-weighting scale measurements with the sound level meter switched to the A network in accordance with the manufacturer's instructions. The operator will note the maximum noise level from the noise source being measured and record it on an appropriate field report form. Where noise level standards are expressed as $L_{eq}$ measurements may be read directly on instruments provided with instantaneous readout or may be calculated from a series of measurements using accepted sampling techniques.

K. The operator shall make octave band noise measurements on an octave band frequency analyzer. These measurements will be made in the same manner as A-weighting scale measurements except that octave band filters will be used instead of the A-weighting network.

L. The operator shall make impulse measurements with a nonaveraging, absolute peak detector. Impulse measurements will be made in the same manner as A-weighting scale measurements except that the meter will be set to the linear unweighted scale with the peak detector circuit engaged.

M. The operator shall use cable calibration when the meter manufacturer's instructions specify the use of such a correction.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.005 Fifty-foot pass-by test.

A. Sections 15.70.005--15.70.010 of these regulations establish practices and procedures for conducting tests to determine the total sound level output of an in-use motor vehicle, as measured 50 feet from the center of the lane of travel.

B. The 50-foot test may be used for all motor vehicles or any combination of vehicles towed by such vehicles, for motorboats and for licensed or unlicensed off-road or recreational vehicles.

C. The operator may conduct the 50-foot pass-by test according to the procedures in Section 15.70.008 of these regulations after selecting an appropriate measurement site and determining the appropriate correction factors as set forth in Sections 15.70.006--15.70.007 of these regulations.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.006 Measurement sites.
A. Two types of sites are established for measuring vehicles in use on the highway. They are a standard measuring site requiring a large clear open area and a restricted site in which sound-reflecting objects are permitted. Correction factors will be applied when required.

B. As shown in figure 1, standard measuring sites are those where the microphone can be placed 50 feet from the center of the vehicle path and where there are no sound-reflecting objects within a 100-foot radius of the microphone and a 100-foot radius of the microphone point (the point on the vehicle path that is closest to the microphone). When making measurements of vehicle sound levels in standard measuring sites, the instrument readings shall be recorded with no correction factor applied.

C. As shown in figure 2, restricted measuring sites are those where the distance from the center of the vehicle path to the microphone is other than 50 feet or where there are sound-reflecting surfaces closer than 100 feet from the microphone or the microphone point. Vehicle noise measurements may be made in such areas when the proper correction factors described in this test are applied to the recorded sound levels. The actual distance from the microphone to the microphone point at the center of the vehicle path may range from 35 to 118 feet when the appropriate correction factor is applied from table I.

D. A sound-reflecting surface is any object or landscape surface in the immediate vicinity of a measurement site which reflects sufficient sound to require the application of a correction factor to the sound level meter reading. Correction factors from table I may be applied only when sound-reflecting surfaces are basically parallel to the lane of travel. A
basically parallel surface may have irregularities or projections of not more than two feet measured perpendicular to the lane of travel, with the distance to the microphone line or vehicle path measured from the closest point of the projection.

E. Correction factors shall not be applied to the sound level reading when the following surfaces are within a standard measuring site:

1. Any surface that measures less than eight feet in length in a direction parallel to the portion of the microphone line on which the microphone is positioned regardless of height, such as a telephone booth or a tree trunk, or less than one foot in height regardless of length, such as a curb or guardrail;

2. Any vertical surface regardless of size, such as a billboard, with the lower edge more than 15 feet above the roadway;

3. Any uniformly smooth slanting surface with less than a 45-degree slope above horizontal;

4. Any slanting surface with a 45- to 90-degree slope above horizontal where the line at which the slope begins to exceed 45 degrees is more than 15 feet above the roadway;

5. Any trees, bushes, shrubs, hedges, grass or other vegetation.

F. Correction factors shall be applied to sound level meter readings when there are sound-reflecting surfaces within 100 feet of either the microphone or microphone point as follows:

1. Sites where there are sound-reflecting surfaces basically parallel to the vehicle path within the clear area of the standard site may be used by measuring the distance and applying the correction factor obtained from the nomogram in figure 3.

   FIGURE 3. NOMOGRAM FOR REFLECTING SURFACES

ADD FIGURE page 15.70-7

2. The point of measurement from smooth embankments shall be the place on the embankment where the slope begins to exceed 45 degrees above horizontal. The point of measurement from irregular embankments shall be the place on the embankment where the irregularity begins. A smooth embankment is one with vegetation, concrete, asphalt, dirt or other relatively smooth cover.

   FIGURE 4. MEASUREMENT OF DISTANCE TO EMBANKMENT

ADD FIGURE page 15.70-8

3. To determine the correction factor for sound-reflecting surfaces within the measuring site, measure the distances shown in figure 5. Measurement D is the shortest distance between the sound-reflecting surface and the centerline of the lane of travel. Measurement L is the shortest distance between the sound-reflecting surface and a line parallel to the lane of travel that passes through the microphone (microphone line).
4. Locate the points on the left and right scales of the nomogram corresponding to the distances D and L. Place a straight edge through the nomogram so that it connects the two points. The point where the straight line intersects the center axis indicates the correction factor to be applied to the sound level meter reading.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.007 Restrictions on measurement site selection.

A. Roadways selected for sound level measuring sites shall be paved with concrete or asphalt. All other pathways selected for sound level measuring sites shall be on hard-packed earth or live vegetation of less than four inches in height.

B. Snowmobile sites shall be covered with snow or live vegetation no more than four inches in height.

C. Boat sites shall be on water with waves less than 12 inches.

D. Sound measurements shall not be made within 100 feet of a tunnel or overpass through which the roadway passes.

E. The vehicle path and microphone shall not be within 50 feet of overhangs on buildings which project more than two feet from the wall of the building.

F. Sound-reflecting surfaces other than the ground or water shall be no closer than ten feet from the microphone line.

G. Sound-reflecting surfaces shall be no closer than ten feet from the center of the lane of travel for a distance of 100 feet parallel to the vehicle path on either side of the microphone point.

H. Large reflecting surfaces that are not basically parallel to the lane of travel shall be 100 feet or more from the microphone or microphone point.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.008 Sound level measurement procedures.

A. The operator shall follow the general procedures set forth in Section 15.70.004 of these regulations, except as otherwise provided in this section.

B. The operator shall ensure that the noise recorded is actually from the vehicle being measured.

C. The sound level of the vehicle under scrutiny must rise at least six dB(A) before and fall
at least six dB(A) after the maximum sound level occurs.

D. The sound level recorded shall be the highest level obtained as the vehicle passes by, disregarding unrelated peaks due to extraneous ambient noises.

E. The operator shall not conduct the 50-foot pass-by test when wind velocity at the test location exceeds ten miles per hour.

F. The ambient sound level shall be at least ten dB(A) below the sound level of the vehicle being measured.

G. The sound level meter may be hand held, placed on a tripod according to the manufacturer's instructions or mounted on a vehicle according to the manufacturer's instructions.

H. The operator shall set the sound level meter on the A scale and shall use the fast response mode.

I. The operator shall place the microphone at a height of four feet or more as shown in figure 6.

FIGURE 6. MICROPHONE HEIGHT

ADD FIGURE page 15.70-10

J. After an initial 50-foot pass-by test has been conducted, a vehicle may be retested according to one or more of the tests designated for the motor vehicles described in Sections 15.70.011 and 15.70.014 of these regulations.

K. All other motor vehicles not designated in Sections 15.70.011 and 15.70.014 of these regulations, including off-road and recreational vehicles, may be retested using the 50-foot pass-by test and the additional retesting procedures set forth in Sections 15.70.009--15.70.010 of these regulations as may apply.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.009 Snowmobile retesting procedures.

A. Snowmobiles shall be retested as provided in this section.

B. Other off-road vehicles not subject to the testing procedures in Section 15.70.010 of these regulations shall be retested as provided in this section.

C. The test area shall include a vehicle path of sufficient length for safe acceleration, deceleration and stopping of the vehicle.

D. The following points and zones shown in figure 7, where only one directional approach is illustrated for the purpose of clarity, shall be established on the vehicle path so that measurements can be made on both sides of the vehicle.

1. Microphone point;
2. End point--a location 50 feet beyond the microphone point;
3. Acceleration point--a location on the vehicle path established as follows: Position the vehicle headed away from the microphone point with the vehicle reference point at 25 feet from the microphone point. From a standing start with transmission in low gear, rapidly apply wide-open throttle, accelerating until maximum rpm is attained. The location on the vehicle path where maximum rpm was attained is the acceleration point for test run in the opposite direction.

FIGURE 7. TEST AREA LAYOUT FOR SNOWMACHINES
ADD FIGURE page 15.70-12

E. From a standing start, with transmission in low gear and the vehicle reference point positioned at the acceleration point, the throttle shall be rapidly and fully opened and held through the maximum rpm zone until the reference point on the vehicle reaches the end point after which the throttle shall be closed.

F. Sufficient preliminary runs shall be made to enable the test driver to become familiar with the operation of the vehicle and to stabilize engine operating conditions.

G. At least four test runs shall be made for each side of the vehicle.

H. The reported sound level for each side of the vehicle shall be the average of the two highest readings on the side which are within two dB(A) of each other. The sound level reported for the vehicle shall be the sound level of the louder side.

(AR No. 82-148)
Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.010 Motorcycle retesting procedures.

A. Although the 20-inch test set forth in Section 15.70.011 of these regulations is the test of choice for motorcycles, motorcycles may also be retested as provided in this section.

B. Off-road vehicles similar to motorcycles shall be retested as provided in this section.

C. A test area shall include a vehicle path of sufficient length for safe acceleration, deceleration and stopping of the vehicle.

D. The following points and zones shown in figure 8 where only one directional approach is illustrated for purpose of clarity shall be established on the vehicle path so that measurements can be made on both sides of the vehicle:

1. Microphone point;
2. Acceleration point--a location 25 feet before the microphone point;
3. End point--a location 100 feet beyond the microphone point;
4. End zone--the last 75-foot distance between the microphone point and the end
E. Motorcycles shall be operated in second gear. Vehicles which reach maximum rpm at less than 30 mph or before a point of 25 feet beyond the microphone point shall be operated in the next higher gear.

F. If the motorcycle has an automatic transmission or torque converter, then gear selection shall depend upon whether the gear range is selectable. If the gear range is selectable, employ the lowest range. If the vehicle reaches maximum rpm at less than 30 mph, use the next higher range. If maximum rpm is reached before a point 25 feet beyond the microphone point when the vehicle is in the highest gear range, then the throttle shall be opened less rapidly, but in such a manner that full throttle and maximum rpm are attained while within the end zone. If the gear range is not selectable, then the throttle shall be opened less rapidly, but in such a manner that full throttle and maximum rpm are attained while within the end zone.

G. The vehicle shall proceed along the test path at a constant approach speed which corresponds either to an engine speed of 60 percent of maximum rpm or to 30 mph, whichever is lower. When the vehicle reference point reaches the acceleration point, the throttle shall be rapidly and fully opened. The throttle shall be held open until the vehicle reference point reaches the end point or until the maximum rpm is reached within the end zone at which point the throttle shall be closed. Wheel slip shall be avoided.

H. Tests during deceleration shall be conducted when deceleration noise appears excessive. The vehicle shall proceed along the vehicle path at maximum rpm in the same gear selected for the test during acceleration. When the reference point on the vehicle reaches the acceleration point, the throttle shall be rapidly closed and the vehicle shall be allowed to decelerate to less than one-half of maximum rpm.

I. The engine temperature shall be within normal operating range before each test run.

J. The total weight of test driver and test instrumentation shall be at least 165 pounds.

K. Sufficient preliminary runs shall be made to enable the test driver to become familiar with the operation of the vehicle and to stabilize engine operating conditions.

L. At least four test runs shall be made for each side of the vehicle.

M. The reported sound level for each side of the vehicle shall be the average of the two highest readings on that side which are within two dB(A) of each other. The sound level reported for the vehicle shall be the sound level of the louder side.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.
15.70.011 Twenty-inch stationary motor vehicle test.

A. Sections 15.70.011--15.70.013 of these regulations establish practices and procedures for conducting tests to determine the sound level output of a stationary vehicle as measured 20 inches (0.5 meter) from the exhaust exit. This procedure allows testing indoors and at sites limited in open space.

B. The 20-inch test will be the test of choice for all motorcycles, motor vehicles under 10,000 pounds GVWR or GCWR, except off-road vehicles or any combination of vehicles towed by such motor vehicles.

C. If a vehicle is suspected to be in violation, the operator shall conduct a visual inspection of the exhaust system. The inspection will include the entire system from the engine to the exhaust outlet pipe.

D. If the initial evaluation warrants further inspection or if the visual check does not disclose an obvious violation of Anchorage Municipal Code 15.70.090.B, then the operator shall conduct the 20-inch test set forth in this section. This test uses a sound level meter to measure the noise level of the vehicle under controlled test conditions.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.012 Sound level measurement procedures.

A. The operator shall follow the general procedures set forth in Section 15.70.004 of these regulations except as otherwise provided in this section.

B. The vehicle must rest on the ground or pavement, shop floor, or on a dynamometer. It should not be on a hoist, rack or over a pit. Shop doors should be open to avoid excessively high readings, and reflective surfaces should be as far as possible from the sound level meter.

C. The operator shall take care to prevent interference with sound level measurements caused by personnel in the measurement area. Bystanders shall not stand within ten feet of the microphone or vehicle during noise tests.

D. The ambient noise level shall be at least ten dB(A) below the sound level of the vehicle being tested.

E. The operator shall not take noise measurements when wind velocity at the test location exceeds 20 miles per hour.

F. The operator shall use a calibrated engine tachometer to determine when the test rpm is attained. Tachometers shall have an accuracy of ±two percent of full scale. Each tachometer shall be calibrated at least once a year in accordance with manufacturer's calibration procedures.

G. The operator shall set the sound level meter on the A scale and use the slow response mode.

H. The microphone for the sound level meter shall be at the same height as the center of the exhaust outlet but no closer to the ground surface than eight inches. The
microphone shall be positioned with its longitudinal axis parallel to the ground, 20 inches from the edge of the exhaust pipe, and 45 ± ten degrees from the axis of the outlet. For exhaust outlets located inboard from the vehicle body, the microphone shall be located at the specified angle and at least eight inches from the nearest part of the vehicle. For vehicles having more than one exhaust outlet, the measurement shall be taken at each outlet. For motorcycles with more than one outlet per side, the measurement shall be made at the rearmost outlet.

I. When the exhaust system sound levels of automobiles, light trucks and other automotive-powered vehicles are tested, the engine shall be operated at normal operating temperature with the transmission in park or neutral. Sound level measurements shall be made at 75 percent of the rpm for rated horsepower ±100 rpm of meter readings.

J. When the exhaust system sound levels of motorcycles are tested, the rider shall sit astride the motorcycle in a normal riding position with both feet on the ground. If the motorcycle engine data is available, the operator shall test the motorcycle at 50 percent of the rpm for maximum rated horsepower ±100 rpm. If the engine data is not available and if the motorcycle has a tachometer indicating the manufacturer’s recommended maximum engine speed (“red line”) the operator shall test the motorcycle at 45 percent of the red line rpm ±100 rpm. If the engine data and red line rpm are not available, the operator shall test the motorcycle at 3,500 rpm ±100 rpm for motorcycles with total cylinder displacement between zero to 950 cc (zero to 58 cm³ [in³]) or 2,800 rpm ±100 rpm for motorcycles with total cylinder displacement greater than 950 cc (58 in³).

K. The reported exhaust system sound level reading shall be the highest reading obtained during the test, exclusive of peaks due to unrelated ambient noise or extraneous impulsive type noise obtained during the acceleration or deceleration portion of the test. When there is more than one exhaust outlet, the noise level shall be reported for each outlet.

(AR No. 82-148)
Authority--Anchorage Municipal Code 3.40, 15.70.040.

FIGURE 9. MICROPHONE PLACEMENT FOR AUTOMOBILES AND LIGHT TRUCKS
ADD FIGURES page 15.70-17

FIGURE 10. MICROPHONE PLACEMENT FOR MOTORCYCLES
ADD FIGURES page 15.70-13

15.70.013 Allowable sound levels.

The following standards shall be used for the 20-inch test, and a violation of these standards shall be a violation of Anchorage Municipal Code 15.70.020.D:

TABLE INSET:
The following standards shall be used for the 20-inch test, and a violation of these standards shall be a violation of Anchorage Municipal Code 15.70.020.D:

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Model Year</th>
<th>Maximum Noise Level dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front-engine automobiles and light trucks, and all other front-engine road</td>
<td>All</td>
<td>95</td>
</tr>
<tr>
<td>vehicles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear-engine automobiles and light trucks, and mid-engine automobiles and</td>
<td>All</td>
<td>97</td>
</tr>
<tr>
<td>light trucks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorcycles</td>
<td>1975 and before</td>
<td>102</td>
</tr>
<tr>
<td></td>
<td>1976 and after</td>
<td>99</td>
</tr>
</tbody>
</table>

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.014 Twenty-five foot stationary motor vehicle test.

A. Sections 15.70.014--15.70.017 establish practices and procedures for conducting tests to determine the sound level output of a stationary vehicle as measured 25 feet from the vehicle.

B. The 25-foot test shall be used only for motor vehicles in excess of 10,000 pounds GVWR or GCWR.

C. If a vehicle is suspected to be in violation, the operator shall conduct a visual inspection of the exhaust system. The inspection will include the entire system from the engine to the outlet pipe.

D. If the initial evaluation warrants further inspection or if visual check does not disclose an obvious violation of Anchorage Municipal Code 15.70.090.B then the operator shall conduct the 25-foot test. This test uses a sound level meter to measure the noise level of the vehicle under controlled test conditions.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.015 Measurement sites.

A. Measurement sites shall be free of sound-reflecting surfaces within 50 feet of the microphone and 50 feet of the vehicle to be tested. The following surfaces are not sound reflective:

1. Any surface that measures less than eight feet in length in a direction parallel to the portion of the microphone line on which the microphone is positioned, regardless of height (such as a telephone booth or a tree trunk) or less than one foot in height, regardless of length (such as a curb or guardrail);

2. Any vertical surface regardless of size (such as a billboard) with the lower edge more than 15 feet above the roadway;

3. Any uniformly smooth slanting surface with less than a 45-degree slope above
4. Any slanting surface with a 45- to 90-degree slope above the horizontal where the line at which the slope begins to exceed 45 degrees is more than 15 feet above the roadway;

5. Any trees, bushes, shrubs, hedges, grass or other vegetation.

B. All other surfaces are considered sound-reflecting surfaces.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

FIGURE 11. STATIONARY MEASUREMENT SITE
ADD FIGURE page 15.70-21

15.70.016 Sound level measurement procedures.

A. The operator shall follow the general procedures set forth in Section 15.70.004 of these regulations, except as otherwise provided in this section.

B. The microphone shall be located 25 feet ± six inches from the rear or from either side of the vehicle to be tested. The locus of points thus defined is the microphone line. The microphone shall be located at the point on the microphone line at which the maximum sound level occurs.

C. The ambient sound level shall be at least ten dB(A) below the sound level of the vehicle being tested.

D. The operator shall set the sound level meter on the A scale and use the fast response mode.

E. Vehicles shall be stationary, in neutral gear, with the clutch engaged, and at its normal operating temperature.

F. Engines with speed governors shall be run at low idle with the throttle closed. The throttle shall then be fully opened as fast as possible. As soon as the engine reaches and stabilizes at governed speed, the throttle shall be fully closed as quickly as possible.

G. Engines without speed governors shall be operated the same as governed engines except that the throttle shall be closed quickly enough to prevent excessive engine speed and possible damage to the engine. Drivers of vehicles supplied with tachometers should use the tachometer to monitor engine speed.

H. The reported sound level for the vehicle shall be the highest reading which is no more than one dB(A) higher than the next highest reading, exclusive of peaks due to unrelated ambient noise.

(AR No. 82-148)

Authority--Anchorage Municipal Code 3.40, 15.70.040.

15.70.017 Allowable sound levels.

The following standards shall be used for the 25-foot test, and a violation of these
standards shall be a violation of Anchorage Municipal Code 15.70.020.D:

TABLE INSET:

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Model Year</th>
<th>Maximum Noise Level dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor vehicle of 10,000 GVWR or GCWR</td>
<td>Before 1976</td>
<td>94</td>
</tr>
<tr>
<td></td>
<td>1976 and after</td>
<td>91</td>
</tr>
<tr>
<td>Buses, wheel and crawler tractors</td>
<td>Before 1976</td>
<td>94</td>
</tr>
<tr>
<td></td>
<td>1976 and after</td>
<td>91</td>
</tr>
</tbody>
</table>

(AR No. 82-148)
Authority--Anchorage Municipal Code 3.40, 15.70.040.