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**IDAPA 26  
TITLE 01  
CHAPTER 37**

**26.01.37 – RULES GOVERNING TEST PROCEDURES AND INSTRUMENTS  
FOR NOISE ABATEMENT OF OFF HIGHWAY VEHICLES**

**000. LEGAL AUTHORITY.**

The Idaho Park and Recreation Board is authorized under Section 67-7125, Idaho Code to promulgate rules to effectuate the purposes of and aid in the administration of Section 67-7125, Idaho Code. (7-1-94)

**001. TITLE AND SCOPE.**

**01. Title.** The title of this chapter is cited in full as Idaho Department of Parks and Recreation Rules, IDAPA 26.01.37, “Rules Governing Test Procedures and Instruments for Noise Abatement of Off Highway Vehicles.” (7-1-94)

**02. Scope.** This chapter establishes rules to effectuate the purposes of and aid in the administration and enforcement of Section 67-7125, Idaho Code. (7-1-94)

**002. -- 009. (RESERVED)**

**010. DEFINITIONS.**

As used in this chapter: (7-1-94)

**01. All Terrain Vehicle (ATV).** Any recreation vehicle with three (3) or more tires, under eight hundred fifty (850) pounds and less than forty-eight (48) inches in width, having a wheelbase of sixty-one (61) inches or less, traveling on low pressure tires, less than ten (10) pounds per square inch (psi). (4-11-06)

**02. A-Weighting Scale.** A sound filtering system contained in a sound meter which adjusts (weights) the incoming sound energy to approximate human hearing. (7-1-94)

**03. Calibrator.** A device used to standardize the reading of a sound level meter. (7-1-94)

**04. CC.** The displacement (size) of an engine in cubic centimeters. The cc’s of an engine refers to the piston displacement or engine size. (7-1-94)

**05. Db or Decibel.** A unit used to measure the amplitude of sounds. As a sound measured in decibels increases, so does its loudness. (7-1-94)

**06. Off Highway Vehicle (OHV).** Any ATV or motorbike as defined in Section 67-7101, Idaho Code, used off public highways but excluding those vehicles used exclusively on private land for agricultural use or used exclusively for snow removal purposes. These vehicles, together with others not covered by these rules, are sometimes commonly known as off-road vehicles or ORMV’s. (7-1-94)

**07. Operator.** Any person who is in physical control of an OHV. (7-1-94)

**08. Red-Line Speed.** The lowest numerical engine speed included in the red zone on the OHV tachometer or prescribed by the manufacturer as compiled in the “Off-Highway Motorcycle and ATV Stationary Sound Test Manual” published by the Motorcycle Industry Council, Inc. (7-1-94)

**09. Revolutions per Minute (RPM).** The number of times the crankshaft of an engine revolves in one (1) minute. (7-1-94)

**10. Sound Level Meter.** An instrument used for measuring sound levels, which includes a microphone, an amplifier, and meter with frequency weighing networks, such as the A-weighting scale. (7-1-94)

**11. Tachometer.** A device used to measure RPM of an engine. Tachometers used to obtain sound level

measurements may be permanently affixed to the OHV or may be portable units such as hand-held electric, vibrating reed, or inductive tachometers. (4-11-06)

**011. -- 049. (RESERVED)**

**050. TEST PROCEDURE.**

**01. Test Site.** The test site must be a flat, open surface free of large reflecting surfaces, other than the ground, such as parked vehicles, signboards, or hillsides located within sixteen (16) feet of the (OHV) being tested and the location of the microphone of the sound level meter. (7-1-94)

**a.** Ambient sound level. The ambient sound level, including wind effects, at the test site due to sources other than the OHV being measured must be at least ten (10) dB lower than the sound produced by the OHV under test. (7-1-94)

**b.** Wind speed. Wind speed at the test site must be less than twenty (20) miles per hour. (7-1-94)

**c.** Persons in test area. While making sound level measurements, not more than one (1) person other than the operator, the measurer, and the assistant, if necessary, must be within ten (10) feet of the OHV under test or the microphone of the sound level meter, and that person must be directly behind the measurer on a line through the microphone of the sound level meter and the measurer. (7-1-94)

**02. Test Surface.** The surface of the ground within the test area must be paving or hard packed earth, level within an average slope of five (5) inches per foot and must be free of loose or powdered snow, plowed soil, grass of a height greater than six (6) inches, trees, or other extraneous materials. (7-1-94)

**03. Position of OHV. (7-1-94)**

**a.** For two (2) wheeled OHV's, the operator may sit astride of the OHV, in normal riding position with both feet on the ground. If this is not possible because of the seat height of the OHV, an assistant may hold the OHV by the forks, front wheel, or handlebars so that it is stationary with its longitudinal plane of symmetry vertical. If an assistant is not available to assist in holding the OHV upright, the operator may use a box, rock or other object to rest his feet upon to steady the OHV, so long as the OHV longitudinal plane of symmetry is vertical and stationary. (7-1-94)

**b.** For three (3) wheeled and four (4) wheeled ATV's, the operator may sit in the normal riding position with one (1) or both feet on the footrests. (7-1-94)

**04. Operation of OHV. (7-1-94)**

**a.** If the OHV has a neutral gear, the operator must run the engine with the gear box in neutral at a speed equal to one-half (1/2) of the rated engine speed or one-half (1/2) of the red line speed specified by the manufacturer as compiled in the "Off Highway Motorcycle and ATV Stationary Sound Test Manual." (7-1-94)

**b.** If the OHV has no neutral gear, it must be operated either with the rear wheel(s) at least two (2) inches clear of the ground or with the drive chain or belt removed, or the clutch, if the OHV is so equipped, disengaged. (7-1-94)

**05. Engine Temperature.** The engine of the OHV being tested must be at a normal operating temperature during the test. (7-1-94)

**051. -- 099. (RESERVED)**

**100. MEASUREMENT.**

**01. Sound Level Meter Settings.** The sound meter must be set for the A-weighting scale and may be set for either slow or fast dynamic response. (7-1-94)

- 02. Exhaust Outlets.** Tests must be made on each side of the OHV having an exhaust outlet. (7-1-94)
- 03. Location of the Microphone of the Sound Level Meter.** (7-1-94)
- a.** The microphone of the sound level meter must be located twenty (20) inches - one-half (1/2) inch behind the exhaust. If there is more than one (1) exhaust outlet per side, the microphone of the sound level meter must be located with reference to the rear most outlet. (7-1-94)
- b.** The microphone of the sound level meter must be within one-half (1/2) inch of the height of the exhaust outlet. (7-1-94)
- c.** The microphone of the sound level meter must be at a forty-five (45) degree - ten (10) degree angle to the normal line of travel of the OHV. (7-1-94)
- d.** The longitudinal axis of the microphone of the sound level meter must be in a plane parallel to the ground plane. (7-1-94)
- e.** The axis of the microphone of the sound level meter must be oriented as specified for field response by the manufacturer. (7-1-94)
- 04. Attachments Prohibited.** No wire or other rigid means of distance measurement must be attached to the sound level meter measuring system. (7-1-94)
- 05. Sound Level.** The sound level recorded must be that measured during steady state operation at the engine speed specified in Subsections 050.04 and 050.05 of this chapter, two hundred (200) RPM, measured on the loudest side of the OHV. The test speed in RPM must also be recorded. (7-1-94)
- 06. Calibration.** Calibration of the sound level meter using a sound level calibrator with an accuracy of one-half (1/2) dB must be made immediately before the first test of each day. Field calibration should be made at intervals of no more than one (1) hour. (7-1-94)
- 101. -- 149. (RESERVED)**
- 150. EQUIPMENT.**
- 01. Sound Level Meter.** A type one (1) sound level meter, which generally can provide the most accurate measurements, must be used for certification of exhaust systems and for law enforcement purposes. (7-1-94)
- 02. Tachometer.** A hand-held tachometer of the type described in Subsection 010.11 must be used if the OHV does not have a permanently affixed tachometer. (7-1-94)
- 03. Calibrator.** A calibrator appropriate for use with the sound level meter must be used to calibrate the sound level meter. (7-1-94)
- 04. Manual.** Persons measuring sound levels for law enforcement purposes must use the "Off-Highway Motorcycle and ATV Stationary Sound Test Manual," published by the Motorcycle Industry Council, Inc. for current information concerning manufacturer's specifications for OHV operation. (7-1-94)
- 151. -- 999. (RESERVED)**

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