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#### Reducing Noise Emissions from Motor Vehicles New EU Legislative proposal

Working party on Noise (GRB) 55th meeting

**7 - 9 Feb**ruary 2012



European Commission Enterprise and Industry Automotive Unit

#### Background

- Noise emissions addressed by EU Directive 70/157/EEC and UNECE Regulation No. 51
- Limits reduced several times (lastly in 1995)
- Not expected effects
- WHO confirmed harmful effects of noise
- Commission strategy on clean and energy efficient vehicles (28.04.2010) includes measures to reduce noise
- New method adopted by GRB
- Monitoring period Regulation No 51 (July 2007- July 2010)



# **Proposal (1)**

- Replace existing test method by new UNECE test method
- Proposed reduction based on the monitoring
- study to assess new test protocol and provide possible new limit values (VENOLIVA study by TNO)
- Impact assessment (cost/benefit analysis)
- Principles agreed by CARS 21 group

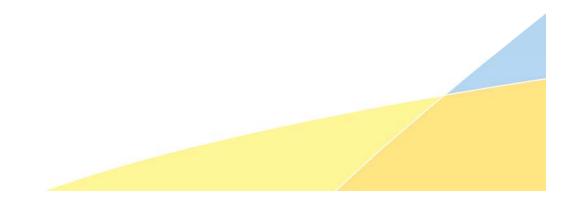


#### **Proposal (2):** Lower noise limit values in 2 stages

- 1st stage: 2 years after publication (new types):
  - Cars, buses and light trucks: 2 dB(A)
  - Heavy trucks: 1 dB(A)
- 2nd stage: 5 years after publication for new types and 7 years after publication for all types
  - Cars, buses and light trucks: -2 dB(A);
  - Heavy trucks: -2 dB(A)

### **Proposal (3)**

Vehicle category	Description of vehicle category		Limit values expressed in dB(A) [decibels(A)]					
		Type-app	Limit values for Type-approval of new vehicle types		Limit values for Type-approval of new vehicle types		Limit values for registration, sale and entry into service of new vehicles	
			Phase 1 valid from		alid from after	Phase 3 valid from [7 years after		
			[2 years after publication]		ation]	publication]		
			Off-		Off-		Off-road	
		General	road *	General	road *	General	*	
М	Vehicles used for the carriage of passengers	General	-	General		General	*	
<b>M</b> M1	for the carriage	General 70	-	General 68		General 68	69**	



# **Proposal (4)**

Vehicle category	Description of vehicle category	Limit values expressed in dB(A) [decibels(A)]						
		Type-approval of Type-approv		Limit values for Type-approval of new vehicle types		Limit values for registration, sale and entry into service of new vehicles Phase 3 valid from [7 years after publication]		
				safter				
		General	Öff- road*	General	Off- road *	General	Off-road '	
M <sub>2</sub>	no of seats > 9; mass <u>&lt;</u> 2 tons no of seats > 9;	72	72	70	70	70	70	
$M_2$	2 tons < mass <u>&lt;</u> 3.5 tons	73	74	71	72	71	72	
M <sub>2</sub>	no of seats > 9; 3.5 tons < mass <u>&lt;</u> 5 tons; rated engine power < 150 kW	74	75	72	73	72	73	
M <sub>2</sub>	no of seats > 9; 3.5 tons < mass $\leq$ 5 tons; rated engine power $\geq$ 150 kW	76	78	74	76	74	76	

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# **Proposal (5)**

Vehicle category	Description of vehicle category	Limit val Type-app new vehic Phase 1 va [2 years publica	roval of cle types alid from s after ation]	expresso [decil Limit val Type-app new vehic Phase 2 v [5 year	Limit values expressed in dB(A) [decibels(A)] Limit values for Type-approval of new vehicle types Phase 2 valid from [5 years after publication]		Limit values for registration, sale and entry into service of new vehicles Phase 3 valid from [7 years after publication]	
		General	Off-road *	General	Off-road *	General	Off-road *	
M <sub>3</sub>	no of s eats > 9; mass > 5 tons; rated engine power < 150 kW	75	76	73	74	73	74	
M <sub>3</sub>	no of seats > 9; mass > 5 tons; rated engine power $\geq$ 150 kW	77	79	75	77	75	77	



#### Proposal (6)

Vehicle category	Description of vehicle category	Limit values expressed in dB(A) [decibels(A)]					
		Limit valu Type-appr new vehic	roval of	Limit val Type-app new vehic	roval of	Limit values for registration, sale and entry into service of new vehicles	
		Phase 1 val <mark>i</mark> d from [2 years after publication]		Phase 2 va [5 years publica	safter ation]	Phase 3 valid from [7 years after publication]	
		General	Off- road *	General	Off- road *	General	Off-road *
N1	mass < 2 tons	71	71	69	69	69	69
$N_1$	2 tons < mass < 3.5 tons	72	73	70	71	70	71
N <sub>2</sub>	3.5 tons < mass <u>&lt;</u> 12 tons; rated engine power < 75 kW	74	75	72	73	72	73
N <sub>2</sub>	3.5 tons < mass ≤ 12 tons; 75 ≤ rated engine power < 150 kW	75	76	73	74	73	74
N <sub>2</sub>	3.5 tons < mass $\leq$ 12 tons; rated engine power $\geq$ 150 kW	77	79	75	77	75	77
N <sub>3</sub>	mass > 12 tons; 75 <u>&lt;</u> rated engine power < 150 kW	77	78	75	76	75	76
N <sub>3</sub>	mass > 12 tons; rated engine power ≥ 150 kW	80	82	78	80	78	80

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# **Proposal (7)**

- Derogations for certain vehicle types (sport cars, off road)
- Include additional sound emission provisions (ASEP) in type-approval procedure
- Including requirements regarding minimum noise of quiet vehicles:
  - Adequate sound generating devices used
  - Harmonisation of applied technology.
  - Installation not mandated (optional)

#### **Process of adoption**

- 9 December 2011: EU Commission proposal
- 2012: Discussion of the text by the legislator (EU Council of ministers and EU Parliament)
- 2013: Publication?



#### More information on the EU proposal ?

Commission proposal with impact assessment: http://ec.europa.eu/enterprise/sectors/automotive/documents/proposals/in dex\_en.htm#h2-1

# THANK YOU FOR YOUR ATTENTION !

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