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AD HOC  
INTERNATIONAL MEETING  
OF REGULATORY OFFICIALS  
ON ALIGNMENT OF  
NOISE TEST  
PROCEDURES

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DECEMBER 9-12, 1980

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NATIONAL REGULATORY SITUATIONS AND REGULATIONS  
CONCERNING NOISE SOURCE EMISSIONS  
REVISED APRIL 30, 1981

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ORIGINAL ENGLISH

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AND

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NOISE SOURCE EMISSIONS

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APRIL 30, 1981

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FOREWORD

This Compendium was prepared by the U.S. Environmental Protection Agency, who served as Secretariat and host for the first Ad Hoc International Meeting of Regulatory Officials on Alignment of Noise Test Procedures held in Washington, D.C., December 9-12, 1980.

The Commission of European Communities has offered to serve as the Secretariat for a subsequent Ad Hoc Meeting to be held in 1981.

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INTRODUCTION

In May of 1980, the Organization for Economic Cooperation and Development (OECD) held a Conference on noise in Paris. This Conference was the first international meeting ever held on noise abatement policy. One of the topics discussed was the need for major new efforts in the international harmonization of noise measurement procedures that are used for regulatory purposes.

In a statement to the Conference, Ms. Barbara Blum, the Head of the United States Delegation, stated, in part, that:

"...we believe there is no more important goal before all of us here than to harmonize noise measurement procedures...We believe that such harmonization, as important as it is today, will only grow in significance in the immediate years ahead...This Conference has dramatically illustrated the fact that other Nations share the concerns of the United States. Several international organizations continue to do the majority of work in harmonization of measurement procedures. These organizations must continue their excellent efforts. However, there are a number of specific policy questions which, as the discussions in this Conference point out, need to be resolved to speed up the harmonization work underway in the ECE, ISO, and IEC."

Ms. Blum then proposed that officials who had policy responsibility for adoption of appropriate noise measurement procedures for regulatory purposes in their respective countries, meet on an ad hoc basis in 1980. The United States offered to host the meeting and asked that a steering group be formed of interested governmental parties to draw up the agenda for that meeting and to prepare the necessary technical work.

The apparent interest on the part of political leaders to explore possible international harmonization of noise measurement procedures specified in product noise regulations may be attributed, in part, to the following circumstances:

(1) Preparation for the OECD Conference was quite extensive. All participating countries demonstrated a strong desire to make a very positive commitment to reductions in a range of product noise emission levels, with particular emphasis on motor vehicles. In trying to arrive at what those levels should be, the differences in measurement procedures became significantly apparent. The conclusion was reached that there were substantial uncertainties which had not been previously recognized in translating between measurement procedures used by various governmental bodies in regulating product noise. It became apparent that before levels could be compared, it was necessary to have common, or technically aligned, noise measurement procedures.

(2) A number of countries are actively moving to regulate the noise emissions of a wide variety of products. Some of them have already completed product regulations in the areas of motor vehicles, construction equipment, domestic products, and the labeling of products as to their noise reduction or noise emission levels. As the number of regulations increases, the potential for non-alignment of measurement procedures also increases.

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(3) The Multilateral Trade Negotiations were ratified in Geneva in April of 1979. Countries are now committed to work for the elimination of technical barriers to trade among themselves. Although noise emission limits are enforced for a very important purpose--namely to protect people from excessive noise--they could become non-tariff barriers to trade. This is particularly true if manufacturers who design equipment to meet regulatory limits under one measurement procedure can not tell generally how that equipment would perform under other required measurement procedures without further elaborate testing at additional costs. Such technical barriers to trade and their attendant economic implications not only unnecessarily increase manufacturing costs for no increased environmental benefits, but they may result in governments not adopting noise emission limits until potential conflicts resulting from differing test methods and compliance schemes are resolved.

The delegates at the OECD Conference, while committing to take active steps toward international harmonization of measurement procedures in the noise area, did not reach any specific agreement about what the next steps would be to implement this commitment. In the case of motor vehicles, where Working Party WP/29/ECE had been very active, the feeling was that the continuation of past activities might well be sufficient to meet the commitment made by political leaders at the OECD Conference. But in the case of labeling of domestic products and controlling noise of construction equipment, this was not the case. There is no organized effort even to identify problems of harmonization in these other areas. Yet countries are aggressively regulating these products. Continuation of these past practices would not, in any way, be consistent with the OECD commitment to further international harmonization. Consequently, the United States proposed, and delegates of major countries at the Conference agreed in principle and philosophy, that an Ad Hoc Consultation should be held as soon as possible.

A Steering Committee was formed that consisted of representatives from Belgium, Denmark, The Federal Republic of Germany, Finland, France, Italy, Japan, Luxembourg, The Netherlands, the Republic of Ireland, Sweden, the United Kingdom, the United States, and the Commission of European Communities. It became evident that three major elements had to be considered in order to put the commitment to international harmonization into practical and operational terms. They were:

- (1) Identification of noise measurement harmonization problems in all areas in which countries were actively regulating or anticipating future regulations.
- (2) Agreement on the order of priorities among identified problems; which ones should receive attention first.
- (3) Agreement on the most appropriate fora to use for the resolution of these problems.

In October of 1980, the Secretariat, on behalf of the Steering Committee for the Ad Hoc Consultation, sent a questionnaire to all countries that had been invited to participate in the December 9-12, 1980, Ad Hoc Consultation in Washington, D.C. The purpose of the questionnaire (a copy of the questionnaire follows this Introduction) was to collect information on product noise regulations and measuring procedures required by national legislation, either

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existing, under development, or anticipated within five years. This information would then form the basis for review and discussion of the need for international alignment.

A draft Compendium of National Regulatory Actions was prepared from responses to the questionnaire. The information was presented in six product categories: Construction Equipment, Domestic Appliances, Miscellaneous, Railroads, Motor Vehicles, and Aircraft. For each category, two charts were presented. The first identified the specific products within the category, and the status (existing, under development, or anticipated) of regulation development, by country. The second chart presented detailed information on the regulations on a product by product basis.

The draft Compendium was given to each participant at the December 1980 Ad Hoc Consultation. The information in it was discussed, and in some cases errors or omissions were corrected at that time. All participating countries were requested by the Secretariat to review the Compendium and to provide information on any further additions, deletions, or corrections by January 31, 1981.

This Compendium represents a compilation of all material received by the Secretariat as of April 30, 1981, and includes all corrections requested by the participating countries.

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AD HOC INTERNATIONAL MEETING OF  
REGULATORY OFFICIALS ON ALIGNMENT  
OF NOISE TEST PROCEDURES

**Regulatory Information Summary**

Please provide information on noise measuring procedures required by your national legislation, or by bodies requiring noise measurement procedures under authority given by legislation (examples include industrial insurance institutes established by

legislation, bodies operating national certification and approval systems, and bodies producing official lists showing acoustical properties of machines and other appliances). Please provide information of the type listed below.

**1. Title of Regulation**

**2. Type of Regulation**

- a. New product emission regulation
- b. In-use emission regulations for specific products
- c. New noise attenuating products
- d. General environmental emission regulation

**3. Applicability**

- a. Name(s) of products addressed by regulation:
- b. Categories, subcategories (i.e., power, weight, size, load handling capabilities, etc.), if specified:

**4. Status**

- a. Existing
- b. Under development
- c. Anticipated in near future (within 5 years)

**5. Regulatory Levels and Effective Dates**

- a. Product name(s), categories, subcategories, or other distinctive differences
- b. Levels and effective dates
- c. How are levels stated (maximum, not-to-exceed, average, etc.)?
- d. What acoustic descriptor is used (A-weighted sound pressure level, octave-band sound pressure levels, overall sound power level, etc.)?
- e. What, if any, tolerances are permitted in determining product compliance?

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6. Required Noise Test Method

- a. If ISO procedure, please identify.
- b. If modified ISO procedure, please state modifications and reason/rationale for modification.
- c. If national test procedure, please describe test and basis for its selection.

7. If test method is not ISO, what actions were taken to determine comparability to ISO and/or other national test methods?

8. Did administrative considerations govern the selection of the test procedure? If so, please list major considerations.

9. Did enforcement and/or conformity checks govern the selection of the test procedure? If so, please list major considerations.

10. Please list the major requirements of the national administrative, enforcement and/or conformity test requirements; for EEC directives, please present your national program.

11. Additional Comments

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product : Construction Equipment	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
General Construction Equipment	Japan, France, Vienna, Some Swiss Cantons, EEC, Chicago, W. Germany, Mexico	Netherlands, Switzerland, EEC	Netherlands, United Kingdom, Canada, Denmark, Switzerland
Tower Cranes	West Germany, France	EEC	Denmark
Pavement Breakers	Paris, W. Germany, Vienna, United States, Some Swiss Cantons, France	EEC, United States, Switzerland	Denmark
Power Generators	France	EEC, Netherlands	Denmark
Air Compressors	United States, Norway, W. Germany, Some Swiss Cantons, France	EEC, Netherlands, Switzerland	Denmark, Sweden
Tracked Loaders	W. Germany, United States, France	United States, EEC, Switzerland	Netherlands, Denmark, Sweden
Tracked Diggers	W. Germany, United States, France	United States, Norway, EEC, Switzerland	Netherlands, Denmark, Sweden
Wheel Loaders	W. Germany, United States, Switzerland, France	United States, Norway, EEC, Switzerland	Netherlands, Denmark, Sweden
Welding Generators	France	Netherlands, EEC	
Pneumatic Hammers	W. Germany	Netherlands, Switzerland	
Dumpers	France, Switzerland	Norway, Switzerland	
Crawler Tractors & Wheel Tractors	Switzerland, France	United States, EEC, Switzerland	Denmark
Small 1-Axle Tractors	Switzerland		

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product : Construction Equipment	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Concrete Pumps	W. Germany, France		
Concrete Mixers	W. Germany, France		
Truck-Mixers	W. Germany		
Excavators	W. Germany, France	Norway, EEC	Netherlands
Soil Compactors	France	W. Germany	
Pile Drivers			W. Germany
Earth Moving Machinery	Tasmania		
Wheeled Dozers		EEC	
Mortar Spreaders	France		
Levelers	France		
Cranes	France		
Hammers	France		
Duckhoses	France		
Finishers	France		
Motor-driven Pumps	France		
Cable Layers	France		

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product: Construction Equipment	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Powered Roller	France		
Vibrators	France		
Cutters	France		
Earth Leveling Equipment	France		
Internal Combustion Engines Capable of Being Used on Construction Equipment	France		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM General Construction Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	Includes: Loaders Dozers Excavators	Anticipated		Statistical max.	0	NTE LWA	Based on Work Cycle EEC as in Directive 79/113/ EEC					Type Approval		Labeling Program under development for some products
Japan	Construction works using: Pile drivers & Pile extractors	11/27/68		85		L-A	National Procedure		30 m from Boundary of Work Site			Prefectural Governors designate regulation areas; builders must file reports in advance and may be recom- mended or ordered that noise abatement measures be improved		The regulation applies to construc- tion works, not equipment.
Mexico	General Measurement Methodology	1/2/76				L-A	NOM AA/43	Typical Working Conditions						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM General Construction Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Austria (Vienna) X	General Equip.		100		L <sub>A</sub>			1 m						
Switzerland	Not yet decided, probably: Air Compressors Rock drills Pavement Brks. Dumper Bulldozers Loaders Wheel tractors Excavators	Under de- velopment, probably 1983, or later	Will be set later, under develop- ment	0	L <sub>A</sub> (FAST)	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load, pavement breakers work against damped steel plate	PFPR 7 m 4 microphones, 0.05 m height	Type test by Govern- ment Laboratory (2 production verifica- tion checks by Govern- ment lab (possible))			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
Cantons: Zurich, Aargau			85/80		L <sub>A</sub>			7 m						
U. K.	Pavement brks., Compressors Cranes Power Supplies Bulldozers Loaders Excavators	Anticipated			L-WA	Proposed EEC								Regulation will be replaced by National regula- tion (see above)

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**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM General Construction Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Canada	To include all Mobile Power Const. Eqpt.	Anticipated			L <sub>A</sub> (FAST) NTE	IEC651 SAE J1884								
EEC	General Measure- ment Methodol- ogy	6/19/80	NIL	L <sub>A</sub> (SLOH)	Council Directive 79/113/ EEC of 12/19/78	4m, 10m, or 16m hemispherical radius de- pending on dimension of source								Measurement pro- cedure ISO4872 published in O.J. No. L33 of 2/8/79
United States (Chicago)	Such as: scrappers, pavement breakers, compressors, crawler tractors, dozers, ro- tary drills, angers, loaders, power shovels, cranes, derricks, motor graders, paving ma- chines, off- highway trucks, ditchers, trenchers, compactors, wagons, pneu- matic power- ed equipment	1/1/80	80		L <sub>A</sub>	SAC J952 J184		15.2m				Can't sell if in excess of level		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM General Construction Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	General measurement methodology	1970			L <sub>A, max</sub> (10m) reference distance 10m	National Test Procedure (at least 4 points)	Typical work condition	Tm (from contour)						
France	<147 kw	4/11/72	80	0	1pA			7m				Type Approval		
	≥147 <221 kw	5/5/75	83	0	1pA	4 points	Stationary	7m						
	≥221 <368 kw	5/5/75	87	0	1pA		Max speed	7m						
	≥368 kw	5/5/75	90	0	1pA			7m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tower Cranes**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC Proposal	All		108	NIL	L <sub>WA</sub>	Council Directive 79/113/ EEC of 12/19/78	Under typical raising & lowering work cycles		Type Approval			Type approval with random compliance checks		Proposed & Before the Council of Ministers Published in O.J. No. C54 of 3/8/76
West Germany	All	1974	80		l <sub>(10m)</sub> A <sub>max</sub> (FAST)	Na'l. test procedure (5 points)	Typical work con- dition (max. noise emission)	1m from contour						Low-noise emission product at 5 dBA lower level
France	Same	1977	75		Same	Same	Same	Same						Same
	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	l <sub>pA</sub> l <sub>pA</sub> l <sub>pA</sub> l <sub>pA</sub>	4 points	Stationary Max speed	7m 7m 7m 7m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Pavement Breakers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Austria (Vienna)			100		dBA			1 m						Vienna only
Switzerland		Estimated 1983/84	Not yet decided	0	L <sub>A</sub>	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load, asphalt breakers work against damped steel plate	PFIRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verification checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
Cantons: Zurich, Aargau	<50 kg ≥50 kg	1969(Zurich) 1972(Aargau)	80 85		L <sub>A</sub>			7 m				No certification, only emission conformity checks by local authorities		Will be replaced by National Regulation
USA*			90	8 hrs. max exposure	L <sub>A</sub>			At Operator Position						OSHA Reg.
			75		L <sub>A</sub>				15 m					GSA Reg.
	By Weight	Estimated 85-86			L <sub>A</sub>			7 m	See Compli- ance	Same as Domestic	Does not Apply	Product Verification & Industry Audit		EPA Reg.

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Pavement Breakers**

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Power Generators**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks			
									Domestic	Imports	Exports						
Netherlands					L-WA	EEC						Type Approval		Under Develop- ment			
EEC Proposal	<8kW		103	N.I.	L-WA	Council Directive 79/113/EEC of 12/19/78	X Rated Load Capacity	4, 10, or 15 m radius Hemisphere depending on source dimen- sions N.B. 12 microphones with 15 m radius 8 microphones only are used.	Type Approval			Proposed & Before the Council of Ministers, Pub- lished in O.J. No.: C54 of 3/8/76					
			95														
	>8kW		103														
			98														
	<60kW		103														
			98														
	>60kW		105														
			105														
	<240kW		100														
			107														
	>240kW		102														
			102														

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Power Generators**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	>8 - <125 ≤8 kw >125	1/1/76 1/1/76 1/1/76	85 80 85	0 0 0	LpA LpA LpA		At full power	5 points at 1 m, 4 points at 1 m, number varies depending on dimensions of generator				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Air Compressors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	Flow rate				L <sub>A</sub> NTE							Type Approval		Under development
U.S.A.		90	8 hr. max. exposure	L <sub>A</sub>		At Oper- ators Position		15 m						OSHA Reg.
														GSA Reg.
	75-250 cfm >250 cfm	Jan/78 July/78	76 70	L <sub>A</sub> MAX NTE	EPA	Designed full speed	5 miles 7 m					PV Reports & Selected Audit		EPA Reg.
Sweden		Anticipated												
Norway				A-weighted bel max	ISO 4872- 1978									International Recognized Methods Required

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Air Compressors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	<5 m <sup>3</sup> /min 5 m <sup>3</sup> /min - 10 m <sup>3</sup> /min ≥ 10 m <sup>3</sup> /min	1972	81 83 86		L <sub>A</sub> (10m)	National test procedure (8 points)	Typical work condition	7 m						High idle levels lower by 6 dB(A); low noise emission product at 5 dB(A) lower levels
Switzerland	Flow Rate	Estimated 1983/84	Not yet decided	0	L <sub>A</sub>	National Test Procedure	Max governed engine speed, or max power no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Government laboratory (2 production verification checks by government lab possible)			National Type Approval and Emission Conformity Checks after sales by local authorities		Test method chosen based on simplicity, reproducibility, and possibility for subsequent control measurements
Cantons: Zurich, Aargau	Flow Rate ≤ 10 m <sup>3</sup> /min ≥ 10 m <sup>3</sup> /min	1969 (Zurich) 80 1972 (Aargau) 85	0	L <sub>A</sub>				7 m				No certification, only emission conformity checks by local authorities		Will be replaced by National Regulation

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Air Compressors**

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**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tracked Loaders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
West Germany	≤ 110 kw ≥ 110 kw	1973	87 90		L <sub>A</sub> (10m)	National (test proce- dure (2 points)	Typical work cycle	10 m (resp., 16 or 20m)						Highest idle levels lower by 1 dBA (8 points at 7 m); low- noise emission product at 5 dBA lower levels
	≤ 110 kw ≥ 110 kw	1977	83 86		Same	Same	Same	Same						Highest idle levels lower by 2 dBA (8 points at 7 m); low- noise emission product at 5 dBA lower levels
U.S.A. *			90	8 hr. max. exposure	L <sub>A</sub>		At Oper- ation Position							OSHA Reg.
			75		L <sub>A</sub>			15 m						GSA Reg. EPA Reg.
	Estimate 85				L <sub>A</sub>									
Sweden	Anticipated				Probably ISO 6393									

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tacked Loaders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Switzerland	Engine Power	Estimated 1983/84	Not yet decided	0	L-A	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load	EPRP 7 m 4 microphones, 0.05 m height	Type test by Government labora- tory (2 production verification checks by government lab possible)			National Type Approval and Similar Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
EEC Proposal	<150 kw 150 - 250 kw 250 - 375 kw >375 kw		107 104 110 107 112 110 115 112	NIL	L-WA	Council Directive 90/113/ECC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval			Type Approval with Compliance checks		Proposed and before Council Council of Ministers to be published
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	L-pA L-pA L-pA L-pA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		
West Germany	< 110 kw > 110 kw	1973	87 90		L-A <sup>(1)Dom</sup>	National Test Pro- cedure (2 points)	Typical work cycle	10 m (rep., 16 or 20 m)						High-idle levels lower by 1 dBA (8 points at 7 m); low-noise emission product at 5 dBA lower levels
	< 110 kw > 110 kw	1977	83 86		Same	Same	Same	Same						High-idle levels lower by 2 dBA (8 points at 7 m); low-noise emission product at 5 dBA lower levels

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tracked Dozers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks	
									Domestic	Imports	Exports				
West Germany	<110 kw	1973	87		L <sub>A</sub> (10m)	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m 10 m						Low-noise emission product at 5 dBA lower levels	
			87												
	>110 kw		90											Same	
			90												
	<110 kw	1977	82		Same	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m 10 m						Same	
			82												
	>110 kw		87											Same	
			85												
U.S.A. *			85		L <sub>A</sub>			At Operator's Position							
			89												
		90	8 hr. max. exposure		L <sub>A</sub>			15 m						OSHA Reg.	
			75												
	By Power	Estimate kW			L <sub>A</sub>									EPA Reg.	
EEC (proposal)	<150 kw		107		L <sub>WA</sub>	Council Directive 79/113/EEC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval		-	Type Approval with random compliance checks		Proposed & before the Council of Ministers To be published	
	150 - 250 kw		104												
	250 - 375 kw		110												
	>375 kw		107												
			112												
			110												
			115												
			112												

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tracked Dozers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Sweden		Anticipated				Probably ISO 6393								
Norway	Dozers 0-150 kw 150-250 kw >250 kw DIN				LWA MAX L <sub>A</sub> at operator's	ISO DIS 6393 ISO DIS 6394		Measurement points 2, 4, 6, 8, 10, 12						Harmoniza- tion with proposed EEC Directive
Switzerland	Engine Power	Est 1983/84	Not yet decided	0	L/A	National Test Pro- cedure	Max gov- erned engine speed, or max power no load	FPRP 7 m 3 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifica- tion checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities)		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
France	< 147 kw >147 <221 kw >221 <368 kw >368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Wheel Loaders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	≤110 kw	1972	87 86 90		L <sub>A</sub> (10m)	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 10 or 20 m) 10 m						Low-noise emission product at 5 dBA lower levels
	>110 kw		90 90 93			8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 10 or 20 m) 10 m						Same
	≤110 kw	1976	82 81 85		Same	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 10 or 20 m) 10 m						Same
	>110 kw		85 85 88			8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 10 or 20 m) 10 m						Same
U.S.A. *														
			90	8 hr. max exposure	L <sub>A</sub>		At Oper- ator's Position							OSHA Reg.
			75		L <sub>A</sub>			2	15 m					GSA Reg.
	By Power	Estimate 83			L <sub>A</sub>									EPA Reg.

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Wheel Loaders**

ORIGINAL ENGLISH

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Wheel Loaders**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Welding Generators**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands					L <sub>A</sub> NTE	EEC						Type Approval		Under Develop- ment
EEC	< 200 A		107		NIL	L <sub>A</sub> WA	Council Directive 79/113/EEC of 12/19/78	Full load as designed	4 m or 10 m radius hemisphere depending on dimensions of source (12 microphones)	Type Approval	Type Approval with random compliance checks		Proposed & Before the Council of Ministers Published in O.J. No.: C 54 of 3/8/76	
			102											
	> 200 A		102											
			98											
France	> 200A < 200A	3/1/78 3/1/78	85 80	0 0	LpA LpA	5 points 4 points	on load on load	1m 7m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Pneumatic Hammers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	By weight				L <sub>A</sub> NTE	EEC						Type Approval		Under development
West Germany	≤20 kg 20 kg-35 kg >35 kg	1976	84 87 90		L <sub>A</sub> (10m)	National Test Procedure	Typical work condition	7 m						Low-noise emission product at 5 dB(A) lower levels
	≤ 20 kg 20 kg-35 kg >35 kg	1980	79 82 87		Same	Same	Same	Same						Same
Switzerland	By weight	Int. 1984/85	Not yet decided	0	L <sub>A</sub>	National Test Pro- cedure	Max gov- erned engine speed, or max power no load	EERP 7 m 1 microphone, 0.05 m height	Type test by Govern- ment laboratory (2 produced verifi- cation checks by government lab (possible))			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM DUMPERS**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Norway	Dumpers				L <sub>WA</sub> MAX L <sub>A</sub> at operator's position	ISO DIS 6393 ISO DIS 6394		Measurement points 2, 4, 6, 8, 10,12						Harmoniza- tion with pro- posed EEC Directive
Switzerland (Existing)	<147 kw	7/1/77 10/1/82 10/1/86	86 85 84	1 for Type Approval Tests	L <sub>AMAX</sub> (FAST)	National Test Procedure	Acceler- ation if VMAX > 40 km/h, if VMAX <40 km/h/ max speed pass by	7.5 m	Type Test by Government Lab			Type Approval (National level) and stationary test in use, every 3 years (State level)		Will probably be replaced later by the new regula- tions
	≥147 kw	7/1/77 10/1/82 10/1/86	88 87 86											
New Regulation Under Development	Engine Power	Est 1984/85	Not yet decided	0	L <sub>A</sub>	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load	FIRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifica- tion checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary	7 m						
	≥147 <221 kw	5/5/75	83	0	LpA			7 m						
	≥221 <368 kw	5/5/75	87	0	LpA		Max speed	7 m						
	≥368 kw	5/5/75	90	0	LpA			7 m						
												Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Crawler Tractors and Wheel Tractors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Switzerland (Existing)	<147 kw	1/1/80 10/1/82 10/1/86	82 80 78*	1 for new product	L <sub>A</sub> MAX (FAST)	National Test Procedure	Station- test, in-use, at max power engine speed	7 m	Type Test by Govern- ment lab	by Govern- ment lab		Type Approval (National level) and in-use tests every 3 years (State level)		Will probably be replaced by new regulations
	≥147 kw	1/1/80 10/1/82 10/1/86	84 82 80											
(New Regula- tion Under Development)	Engine Power	Est. 1984/85	Not yet decided	0	L <sub>A</sub>	National Test Procedure	Max gov- erned engine speed, or max power, no load	FPRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verification checks by government lab possible)	by Govern- ment lab		National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
United States <sup>a</sup>	By power	Estimate 83			L <sub>A</sub>									EPA Reg.
France	<147 kw ≥147 <321 kw ≥321 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	L <sub>pA</sub> L <sub>pA</sub> L <sub>pA</sub> L <sub>pA</sub>	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Small 1-Axle Tractors**

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM ... Concrete Pumps**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	All	1973	86		L <sub>A</sub> (10m)	National Test Procedure (8 points)	Typical work condition (max load)	7 m					Low noise emission product at 5 dBA lower levels	
		1976	81											
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Concrete Mixers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Electric/ Combustion Engine	1972			L <sub>A</sub> (10m)	National Test Procedure (8 points)		7 m						Low noise emission product at 5 dB(A) lower levels
	charging volume <150 liter		66/73 71/73				High-idle With charge							
	150-500 liter (manual charge)		72/79 72/76				High-idle With charge							
	(power-driven charge)		83/83				Work cycle							
	> 500 liter		85/85				Work cycle							
	Electric / combustion engine	1975			Same	Same		Same						Same
	Charging volume <150 liter		61/68 66/68				High-idle With charge							
	150-500 liter (manual charge)		66/73 68/71				High-idle With charge							
	(power-driven charge)		80/80				Work cycle							
	> 500 liter		82/82				Work cycle							

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Concrete Mixers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 B3 87 90	0 0 0 0	1pa 1pa 1pa 1pa	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_Truck Mixers\_\_\_\_**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	All	1972	83		L <sub>A</sub> (10dB)	National Test Procedure (8 points)	High-idle With charge	7 m						Low-noise emission product at 5 dBA lower levels
	All	1975	75		Same	Same	High-idle With charge	Same						Same

ORIGINAL ENGLISH

## **SUMMARY OF NATIONAL, REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM EXCAVATORS**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
West Germany	Mobile units	1974			$L_A$ (10m)	National Test Procedure		7 m					Low-noise emission product at 5 dB(A) lower levels	
									8 points	High-idle				
									4 points	Work cycle				
									8 points	High-idle				
									4 points	Work cycle				
	Mobile units	1978			Same	Same		Same					Same	
									8 points	High-idle				
									4 points	Work cycle				
									8 points	High-idle				
									4 points	Work cycle				
EEC (proposal)	$\leq 150$ kw			107	NIL	$L_{WA}$	Council Directive 79/113/EEC of 12/19/78	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source...	Type Approval		-	Type Approval with random compliance checks	Proposed & before the Council of Ministers To be published	
	150 - 250 kw			104										
	250 - 375 kw			110										
	$> 375$ kw			107										
Norway						$L_{AMAX}$	ISO/DIS 6393	Measurement points 2, 4, 6, 8, 10,12					Harmonization with proposed EEC Directive	

ORIGINAL ENGLISH

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM \_\_\_\_ Excavators**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Soil Compactors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Soil Compactors		under development											
France	<147 kw ≥147 <221 kw ≥221 <168 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Earth Moving Machinery**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Wheeled Wagons**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Mortar Spreaders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Levels**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw >147 <221 kw >221 <368 kw ≥368 kw	4/14/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Cranes \_\_\_\_\_**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	<147 kW	4/11/72	80	0	1pA			7 m				Type Approval		
	>147 <221 kW	5/5/75	83	0	1pA	4 points	Stationary	7 m						
	>221 <368 kW	5/5/75	87	0	1pA		Max speed	7 m						
	>368 kW	5/5/75	90	0	1pA			7 m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	<147 kw >147 <221 kw >221 <368 kw ≥ 368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Backhoes \_\_\_\_\_**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw >147 <221 kw >221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 81 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Finishes**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw >147 <221 kw >221 <368 kw >368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 81 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Motor Driven Pumps**

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Cable Layers \_\_\_\_\_**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	<147 kw ≥ 147 <221 kw ≥ 221 <368 kw ≥ 368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	1pa 1pa 1pa 1pa	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Powered Rollers**

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Vibrators**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Check/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/1/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM . . . Cutters . . .**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Earth Leveling Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	<147 kw >147 <221 kw >221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	LpA LpA LpA LpA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Internal Combustion Engines Capable of Being  
Used on Construction Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	1pA 1pA 1pA 1pA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product :	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Domestic Appliances			
Home Appliances		EEC, Netherlands, France	Denmark
Floor Care Appliances			U.S. (Labeling)*, France
Vacuum Cleaners	Japan (Labeling)		U.S. (Labeling)*, France
Floor Buffers			U.S. (Labeling)*, France
Rug Shampooers			U.S. (Labeling)*, France
Electric Throats			U.S. (Labeling)*, France
Major Home Appliances			U.S. (Labeling)*
Refrigerators			U.S. (Labeling)*, France
Washing Machines	Japan (Labeling)	France	U.S. (Labeling)*
Dryers			U.S. (Labeling)*, France
Dishwashers		France	U.S. (Labeling)*
Garbage Disposers			U.S. (Labeling)*
Miscellaneous Home Appliances			U.S. (Labeling)*
Sewing Machines			U.S. (Labeling)*
Portable Kitchen Appliances			U.S. (Labeling)*, France
Blenders	Japan (Labeling)		U.S. (Labeling)*, France
Juicers	Japan (Labeling)		

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product: Domestic Appliances	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Food Processors			U.S. (Labeling)*
Mixers			U.S. (Labeling)† France
Personal Care Appliances			U.S. (Labeling)‡
Hair Dryers			U.S. (Labeling)*
Electric Shavers	Japan (Labeling)		U.S. (Labeling)*
Toys			
Model Airplanes	West Germany	Netherlands, U.K.	
Lawn and Garden Equipment	Chicago		U.S. (Labeling)‡
Power Lawn Mowers	Canada, Denmark, Tasmania, Chicago, West Germany, France	Netherlands, Switzerland, New South Wales, EEC	U.S.* Norway, Denmark, U.K.
Chain Saws	Chicago, New South Wales, Tasmania, France		U.S. (Labeling)* Australia, Switzerland
Garden Tractors	Chicago		U.S. (Labeling)*
Shop Tools	Canada, Tasmania		U.S. (Labeling)‡
Power Drills	Japan (Labeling)		U.S. (Labeling)† France
Power Hand Saws			U.S. (Labeling)‡ France
Power Table Saws			U.S. (Labeling)‡ France
Power Sanders			U.S. (Labeling)*
Power Saber Saws			U.S. (Labeling)*

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product: Domestic Appliances	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Grinders	Japan (Labeling)		
Disk Grinders	Japan (Labeling)		
Planers	Japan (Labeling)		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Home Appliances**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Vacuum Cleaners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Unit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Electric	12/76	75	0	L-A	JIS-Z-8731 & JIS-C-9108	No load	1m, 2 point difference between background and product noise levels must be 10dB or more	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manufacturers can label products that conform, products designated by ministries	Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, considered environmental matters and comfortable use of products	
France	Being Studied													

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Handling Machines**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Electric	4/79	65	0	L <sub>A</sub>	JIS-Z-8731 & JIS-C-9606	on load	3 points, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manufacturers can label products that conform, products designated by miniatrues		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, considered environmental matters and comfortable use of products
France	Project at a standstill in process				L-WA			Special Reverberant Room				Labeling		

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**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Blenders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Electrical	10/77	78	0	L-A	JIS-Z-8731 & JIS-C9609	no load	2 points, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manufacturers can label products that conform, products designated by ministerial		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, considered environmental matters and comfortable use of products
France	Being studied													

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Juicers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Electric	10/77	75	0	L <sub>A</sub>	JIS-Z- 8731 & JIS- C-9609	no load	2 points, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by manufacturers		Comparable to SD R1996, little difference, based on experience of manufacturer, consumer, and other quarters' concerned, con- sidered environ- mental matters and comfortable use of products

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Electric Shavers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Vibrating Rotary	12/79	63 60	0 0	I-A I-A	JIS-Z- 8731 and JIS-C- 9614	no load	1 point, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by manufac- turer		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and compatibility use of products

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Model Airplanes**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	All models				L <sub>A</sub> NTB	Netherlands Standard	Engine at max. rpm, model at 1 m height 8 micro- phone positions with rad- ius of 7 m and height of 1.2 m, 2 miles on long axis of model, mathem- atical avg. of 8 pos- itions					Enforcement by club officials and local police on municipality level		Standard Based on National Research
U. K.			82 (except for national or international competition)		L <sub>A</sub> (SLOW)		Stationary	7 m				Club and local authority		Draft code of practice
West Germany	All combustion engine models	1978	87		L <sub>A</sub> (SLOW) NTB		Stationary, at full power	7 m				Permission to use, by air traffic authority		Low-noise emission products at up to 16 dBA lower levels
	Same	Jan. 1981	84		Same		Same	Same				Same		Same

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Lawn and Garden Equipment**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program		For labeling program											
(Chicago)	Such as: small lawn and garden tools, snow removal equipment,	1/1/78	65		L <sub>A</sub>			15.2m				Product can't be sold if it exceeds the limit		
	Such as: log chippers, powered hand tools	1/1/80	80		L <sub>A</sub>			15.2m				Product can't be sold if it exceeds the limit		

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Power Lawn Mowers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	All categories			Still to be fixed	L <sub>WA</sub> Statistical max. of series	EEC Directive 79/113/ CEE						Levels to be declared by manufacturer. Registration of declared values re- quired before series allowed to be put on market for sale		None labeling program under development
Canada	All categories			0	L <sub>A</sub> (SLOW) NTE	CSA Z107.71 M1980								Existing ISO Pro- cedures not accep- table; conformity dealt with U.S. labeling requests.
Denmark	cutting length in cm. ≤ 50 cm 50 - 120 cm ≥ 120 cm ≤ 50 cm 50 - 120 cm ≥ 120 cm	until 9/10/83  103 106 111 96 100 105	0	0	L <sub>WA</sub> NTE  L <sub>WA</sub> NTE	Danish based  Danish based	Pass-by test, 3 measuring points, perpendi- cular to line of (travel)					Manufacturer self- certification; manu- facturer submit records to Nat'l. Agency of Environmental Pro- tection; self-certifica- tion record goes with each model ; Nat'l Agency can carry out spot tests		ISO/DP 5395 statutory test de- veloped after Danish test; Scan- dinavian agreement on measuring method

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Power Lawn Mowers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Unit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC Proposal	Cutting width up to: ≤50 cm 50-120 cm ≥120 cm		103 106 111	NIL	L-WA	O.J. C, 86 of 4/21/79	Max speed	4 m or 10 m hemisphere radius	Manufacturer's Certificate	---	By Labeling		Proposed and before the Commis- sion of Min- isters Published in O.J. No.: C 86 4/21/79	
Norway	Classed by cutting width ≤60 cm 60-120 cm ≥120 cm	Anticipated within 5 years			L-WA in Belt	Same as in Denmark					EEC Reg 15 with industry selected sample ≤10 units			
Australia (New South Wales)	Program Under Development													
(Tasmania)	1977		0	L-A NTE	AS 1217						Type Approval		Measurement procedures and opera- ting param- eters presented in Code of Practice for Sound Pressure Level Measurement	

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Power Lawn Mowers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.* (Chicago)	Investigating need for labeling program				L <sub>A</sub>			15.2m						
		1/1/78	65									Product can't be sold if it exceeds the limit		
West Germany	<3 kw 3kw - 7 kw >7 kw	1976	75 78 83		L <sub>A,max</sub> (FAST)	(5 points)	Free running, max. engine speed	10 m				Manufacturer self-certification; labeling		Low-noise emission product below 60 dBA; publication of emission values
	<3 kw 3kw - 7 kw >7 kw	1983	68 72 77		Same		Same	Same				Same		Same
United Kingdom														Action will be taken as appropriate to implement EEC directive on lawn mowers when adopted by the Council of Ministers.
Switzerland	Regulation Under Development Est. 1984/85					Probably EEC Proc.			Type test by Government Lab			Type Approval (National level)		
France	Cutting width in mm  1 < 500 500 < 1 < 1200 1 > 1200	2/80 10/83 2/80 10/83 10/80 10/83	103 96 106 100 111 105	0 0 0 0 0 0	L-WA	Standard NF U.15.171	Stationary	4 m  4 m  10 m				Transmission, preliminary to sale, of the official test report		

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Chain Saws**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Canada	All categories			0	Noise - $L_A$ (SLOW) Vibration - RMS $m/sec^2$ (SLOW)	CAN3- Z62.1- 077								Vibration standard may be compatible with ISO procedure under development; Urgent need for Canadian standard in absence of ISO procedure; Canadian standard presently under review
Australia	All sold in Australia	Date of Manufacture or Importa- tion in Australia 1/79-1/81 1/81-1/82 After 82		0	$L_A$ NTB		Operate motor at least 3 minutes, chain saw at least 1 m from ground, operator on stand held, max throttle	Microphone at least 1 m above ground at least 7.5 m from motor						Final Draft - May 1979, Regulation Anticipated
(New South Wales)			95		dBA		Free running full throttle	7.5m				Prohibit sale of saws in excess of standard		Labeling required
(Tasmania)	Regulation in existence													
U.S. (Chicago)*	Investigating need for labeling program	1/1/80	80		$L_A$			15.2m				Product can't be sold if it exceeds the limit		

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Chain Saws**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Garden Tractors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*  (Chicago)	Inventing need for labeling program				L <sub>A</sub>			15.2m						
		1/1/78	65										Product can't be sold if it exceeds the limit	

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Shop Tools**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A.*	Investigating Need for Labeling Program													
Canada	All Categories			0	L <sub>A</sub> (SLOW) NTC	CSA Z107.71- m1980								Existing ISO pro- cedure not accep- table; Conformity designed with U.S. labeling require- ments
Australia (Tasmania)		1977		0	L <sub>A</sub> NTC	AS 1217								Measurement pro- cedures and operating parameter presented in Code of Practice for Sound Pressure Level Measurement
France	Being Studied													

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Power Drills**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Portable Electric	3/76	82	0	L <sub>A</sub>	JIS-Z-8731 & JIS-C-9605	no load	6 points 1m, 10-30 db difference between back ground and product noise levels.	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministeries		Comparable to SO 811996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortabil- ity of products
France	Being Studied													

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the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Grinders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Electric Portable	3/76	82	0	I <sub>A</sub>	JIS-Z- 8731 & JIS- C-9621	no load	5 points 1m, 10-30 dB difference between background and product noise levels	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by minima	on	Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other parties concerned, con- sidered environ- mental matters and comfortable use of products
			85	0			on load	4 points						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Disk Grinders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Electric	3/76	90	0	L <sub>A</sub>	JIS-Z-8731 & JIS-C-9611	no load	5 points 1m, 10-30 dB difference between background and product noise levels	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministry		Comparable to SD R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
			92	0			on load	4 points						

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Planners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition )	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Portable Electric	3/76	90	0	I-A	JIS-Z- 8731 & JIS- C-9625	no load	5 points 1m, 10-30 dB difference between back- ground and product noise levels				Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by minima- lum		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environmental matter and comfortab- le use of products
			92	0			on load	4 points						

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product :	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Watercraft Motorboats	West Germany, Bavaria, Baden/Wurttemberg Canada, Tasmania, Oregon, Switzerland	Norway, West Germany, U.K.	
Hovercraft and surface effect ships		Netherlands	
Snowmobiles	Chicago, Sweden, Canada, Oregon, New Hampshire		
Tractors	Chicago, EEC, United Kingdom, Denmark, Switzerland	Netherlands	
Hearing Protectors	United States		
Building Materials			United States (labeling)*
Acoustical ceiling tiles and panels	Mexico		United States (labeling)*
Acoustical wall tiles and panels	Mexico		United States (labeling)*
Noise control partitions and screens	Mexico		United States (labeling)*
Forklift Trucks		EEC	U.K.
Office Equipment			United States (labeling)*
Typewriters			United States (labeling)*
Copy Machines			United States (labeling)*
Word Processing Machines			United States (labeling)*

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product : Miscellaneous	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Heating, Ventilating, and Air Conditioning Equipment			United States (Labeling)*
Oil Burners and Boilers		Switzerland	
Heat Pumps	Canada		United States (Labeling) <sup>W</sup> , Germany
Residential central and window air conditioners	Canada, Japan (Labeling)	New South Wales, Victoria	United States (Labeling) <sup>X</sup> , Victoria (Labeling)
Dehumidifiers and humidifiers			United States (Labeling)*
Fans	Japan (Labeling)		United States (Labeling)*
Air Cleaners	Japan (Labeling)		
Lighting Equipment			
Fluorescent Table Study Lamps	Japan (Labeling)		
Domestic Pendant Luminaires			
Fluorescent Lamps	Japan (Labeling)		
Recreation Vehicles and Offroad Vehicles	Tasmania, Chicago, New Hampshire, Mexico		
Industrial Vehicles	Tasmania		

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Watercraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Canada	Pleasure motor- boats inboard and out- board				L <sub>A</sub> MAX (FAST) NTE	CSA Z107.21- m1977								Urgent need for Canadian stand- ard in absence of ISO Procedure; Regulation per- mits alternate approach of speed control
Netherlands	Hovercraft & surface effect ships				L <sub>A</sub>									Total ban consider- ed with exceptions for specific re- quirements
Norway	Pleasure boats with outboard motors				L <sub>A</sub> NTE	Modified ISO 2922	90% of max speed							Intent is to regu- late outboard motor noise; low- noise boat design will be used to lessen boat noise
Australia (Tasmania)	Outboard Motor Vessels	1977		0	L <sub>A</sub> NTE	AS 1949						Type approval of new products		Measurement pro- cedures and operating parameters presented in Code of Practice for Sound Pressure Level Measurement
U.S. (Oregon)	All	84			L <sub>A</sub>		Passby							Same standard

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Watercraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
U.K.	Power Boats		85 (with limited exemption)		L <sub>A</sub> (SLOW)		Moving at max. power	25 m				Club or local authority		Draft Code of Practice
	Water Ski Boats				75 and a 12-hr. $\bar{L}_{WA}$ of not more than 7dB over ambient level at boundary of zone of activity (limited exemption)		Constant speed 22 ± 2 mph					Club or local authority		Draft Code of Practice
West Germany	Ships (displace- ment > 15 m <sup>3</sup> ), passenger boats > 12 passengers) swimming con- struction equip- ment	1976	75		L <sub>A,max</sub>		Pasby at max. con- tinuous engine power	25 m						Regulation for watercraft on Rhine River
(Baden- Wurttemberg/ Bavaria)	All ships and watercraft	1976	72		L <sub>A,max</sub>	DIN 45640		25 m						Regulation for watercraft on Lake Constance (Badensee)
(Bavaria)	All ships and watercraft	1977	65		L <sub>A,max</sub>	DIN45640		25 m						Regulation for watercraft on Bavarian Lakes and rivers

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Motorboats**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Motorboats	under development			L <sub>A</sub>									(General regulation)
Switzerland	Motorboats	April 1979	73	0	L <sub>A</sub>	National Test Procedure	Max. Power Passby	25 m	Type test by government Certified Lab (Regional) Authoritative	--	--	Type Approval (Nat. level) 2 in-use checks if necessary (local level)		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Snowmobiles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Sweden	<400 kg	5/1/74	85		dB(A)	ISO R-362	Surface snow					Certificate from manufacturer		
Canada			78	2	dB(A) NTE	SAE J1929						Manufacturer self- certification, audit of test records by inspectors ; testing of selected vehicles by Inspectors		
U.S. (Oregon)		1975	78		L <sub>A</sub>		passby	15.2m					Not Manufactured	
(New Hampshire)		1978	73		L <sub>A</sub>	Intl. Snowmo- bile Indus- try Assn Test	Passby	15.2m						
(Chicago)		1/1/74	73		L <sub>A</sub>	SAE J331 J986 J184		15.2m				Violation to to sell if in excess of level		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tractor**

ORIGINAL ENGLISH

Country/ Organization	Product Class and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	<1500 kg >1500 kg Wheeled Agricultural & Forestry Tractors Unladen	9/4/75	85	1 dB	Sound Pressure L <sub>AMAX</sub>	As specified in the Directive 74/151/ EEC ECE Reg. 9 of 3/26/74	Approach test area at 3/4 max speed in highest gear for road movement, full open throttle through test area	7.5 m from path of the center line FFRP	Type Approval			Type Approval		Published in O.J. No. L105 of 4/28/77, O.J. No.: 184 of 3/28/74
	Driver perceived noise level of wheeled agricultural & forestry tractors		90		L <sub>AMAX</sub> (SLOW)		Stationary test - 3/4 max power or max governed speed	7 m from the nearest surface of the tractor FFRP						
			86		L <sub>AMAX</sub> (SLOW)		Gear giving speed of 7.25 km/h, gear with noise level at least 1 db higher than at 7.25 km/ h, max de- sign speed	FFRP at operator's ear						
Netherlands					L <sub>AMAX</sub> NTE	EEC 74/151/ EEC						Type Approval		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Traction**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Tractors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland	<147 kW	7/1/77 10/1/82 10/1/86	86 85 84	1 for new product tests	L <sub>AHAX</sub> (FAST)	ECE Reg. 9 3/26/74	Acceler- ation	7.5 m	Type Test by Government Lab		-	Type Approval (Nat. level) Stationary tests for in-use control every 3 years (state level)		
	≥147 kW	7/1/77 10/1/82 10/1/86	88 87 86											
B.S. (Chicago)	Agricultural tractors	1/1/80	80		L <sub>A</sub>			15.2m				Can't sell if in excess of level		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Hearing Protectors**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM FORKLIFT TRUCKS**

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM OIL BURNERS AND BOILERS**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Heat Pumps**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S.*	Investigating Need for Labeling Program													
Canada					L <sub>A</sub> MAX (SLOW) NTC	CSA Z107.71- 01-1980								Existing ISO procedure not acceptable; Desire conformity with U. S. labeling requirements

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Residential Central and Window Air Conditioners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S. A.*	Investigating need for labeling program													
Canada					L <sub>A</sub> MAX (SLOW) NTE	CSA Z107.71- M1980								Existing ISO procedures not acceptable; Done conform- ity with U.S. Labeling Reqs.
Japan	<2240kcal/h 2500 - 3550kcal/h >4000kcal/h	3/79	INDR OUTR 52 55 0 55 60 0 60 65 0		I <sub>A</sub>	JIS Z 8731	no load no load no load	1 point, 1m, at least 8 dB differ- ence between background and product noise level	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by manufac- turers	Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products	
Australia (New South Wales)	Program under development													

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Residential Central and Window Air Conditioners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (cont) (Victoria)	<6 kw input power consumption				L <sub>AMAX</sub>	Based on AS 1861		Reverberant Room						Labeling program anticipated
	<6 kw input power consumption				L <sub>AMAX</sub>	National Procedure								house products regulation under development

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Fans**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Ventilating Household Other	12/76 65	55 +3	+3	L <sub>A</sub>	IIS -2- 8731 & JIS- C9603	No load No load	3 points, 1m, at least 8 dB differ- ence between background and product noise levels	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by minister	Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products	

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Air Cleaners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	< 5m <sup>3</sup> /min		50	0	L-A	JIS-Z- 8731 & JIS- Z-9615	no load	1 point, in quiet room	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by minima	on	Comparable to SD R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
	5~20m <sup>3</sup> /min	9/76	55	0			no load							
	>20m <sup>3</sup> /min		60	0			no load							

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Fluorescent Table Study Lamps**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Domestic Pendant Luminaires Fluorescent Lamps**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan		4/76	25	0	L <sub>A</sub>	JIS-Z- 8731 & JIS- Z-8115	Use test lamp	1 point, 0.5m	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by miniatres		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environmental matters and comfortable use of products

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Recreation Vehicles and Offroad Vehicles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Tasmania)	Regulation	In existence												
U.S. (Chicago)	Dune buggies All terrain vehicles Go carts Mini bikes	1/1/75	75		L <sub>A</sub>	SAE J1331 J986 J184		15.2m						
(New Hampshire)	Offroad vehicles	1978	73		L <sub>A</sub>		pass by	15.2m						
Mexico	All sport vehicles	Jan. 2, 1976							Temporary Imports				Shall be used in authorized places under specific conditions	
	Motorcross Motorcycles	Jan. 2, 1976							Applies	Applies			Shall be used in authorized places under specific conditions	

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Industrial Vehicles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Tasmania)		1977		0	L <sub>A</sub> N <sub>T</sub> E	AS 1217								Measurement procedures and operating parameters pre- sented in Code of Practice for Sound Pressure Level Measure- ment

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product: Railroads	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Locomotives & Stock	U.S.	West Germany	Denmark, U. K., Switzerland, EEC
Railyard Facilities	U.S., Mexico	U.S.*	
Railcar Scouring Machines	France		

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL, REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Railroads**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
USA	Manufactured Before Dec. '79	Dec/76	/	93 MAX 73 IDLE	L <sub>A</sub> (SLOW)	As Per 40FR1252 Part 201-23 Part 201-24	As Per 40FR1252 Part 201-23 Part 201-24	30m from Geometric Center	Inspections by Federal Railroad Administration and DOT as per 42CFR- 42345	Same as Domestic				Stationary Standard
	Manufactured After Dec. '79	Dec/79		87 MAX 70 IDLE										
	Manufactured On or Before Dec. '79	Jan/84		87 MAX 70 IDLE	In Compli- ance If or Less at Receiving Property			65						
	Manufactured Before Dec. '79	Dec/76	96		L <sub>A</sub> (FAST)			30 m from Center Line of Truck with < 2 Degrees of Curvature						Moving Standard
	After Dec '79	Dec/79	90			In Compli- ance If 65 or Less at Receiving Property								Switcher Locomotives
	On or Before Dec. '79	Jan/84	90		L <sub>A</sub> MAX (FAST)									Retarded
	All	Jan/84	83		L <sub>A</sub> MAX (FAST)									Car Coupling Operations
	All	Jan/84	92		L <sub>A</sub> MAX (FAST)			At Properly Measurement Locations						Locomotive Load Cell
EEC	Locomotives & Stock		Program under development					30m from Geometric Center of Locomotive						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Railroads**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Locomotives & Stock	Under Development												
U. K.	Locomotives & Stock													Action will be taken as appropriate to implement EEC proposals on railway noise
Switzerland	Anticipated Program													

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Roller Scoring Machines**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	<147 kw ≥147 <221 kw ≥221 <368 kw ≥368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	1pA 1pA 1pA 1pA	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

REDACTED

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product: Motor Vehicles	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Trucks Exterior	Belgium, Czechoslovakia, Finland, Hungary, Italy, Romania, Spain, Yugoslavia, Australia, Victoria, Tasmania, West Germany, UN/ECE, Mexico, United Kingdom, Norway, United States, EEC, Sweden, Canada, Japan, Ireland, Netherlands, Denmark, Switzerland, Illinois.	Denmark, Belgium, Spain	United States*
Interior	United States, Canada	UN/ECE	
Truck-Mounted Garbage Compactors	United States, Stockholm		
Truck-Mounted Refrigeration Units		United States*	
Buses Exterior	Victoria, Tasmania, Chicago, UN/ECE, Mexico, Switzerland, Yugoslavia, Oregon, Norway, Sweden, Canada, Ireland, Japan, Hungary, Romania, Spain, Australia, W. Germany, Belgium, Czechoslovakia, Denmark, EEC, Finland, France, Italy, Luxembourg, Netherlands, Portugal, U.K., Denmark	United States*, Denmark, Belgium, Spain	
Interior	Canada	United States*	Denmark
Autos Exterior	Australia, Victoria, New South Wales, Illinois, Oregon, UN/ECE, Norway, EEC, Sweden, Canada, Ireland, Japan, Denmark, Netherlands, France, Italy, Mexico, Yugoslavia, Spain, Romania, Belgium, Czechoslovakia, Finland, Hungary, W. Germany, U.K., Switzerland, Chicago, Tasmania	Netherlands, Denmark, Spain, Belgium	United States*
Interior			United States*
Tires		UN/ECE	United States (labeling)*
Motorcycles	U.S., Mexico, Australia, Victoria, Tasmania, UN/ECE, New South Wales, Denmark, Norway, EEC, Canada, Japan, Romania, Italy, Czechoslovakia, Spain, Belgium, Finland, Hungary, Yugoslavia, W. Germany, Netherlands, U.K., Switzerland	Denmark	
Mopeds	Japan, Netherlands, United Kingdom, Denmark, Norway, Switzerland, W. Germany	United States*, UN/ECE	
General Motor Vehicles	Tasmania, Western Australia, Victoria		

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM TRUCKS**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
USA*	All >1536 kg.	1/1/78	83	0	L-AMAX (FAST) NTE	U.S. EPA Based on slightly Modified SAE J366B	Wide open throttle to max. rated en- gine speed NTE 56 Km/h	15.2 m FFRP	See Compli- ance Checks	Same as Domestic	Regulation Does Not Apply	Mr. or EPA tests 1 sample of each Vehicle Configuration; Optional Selective Enforce- ment Audit; Inspec- tion of Facilities and and Reports; Recall; Cease to Distribute		
		1/1/83	80	0										
	Revision to Regulation anticipated in 1984 to 1985 Time frame													
	Interstate Mo- tor Carriers >1536 kg. GVWR	10/15/75	86	0	L-AMAX (FAST) NTE		≤56 km/h In opera- tion	15.2 m FFRP	Regulation Applies	Regulation Applies		On-road spot inspec- tions		
		10/15/75	90	0	L-AMAX (FAST) NTE		>56 km/h In opera- tion							
	Vehicles with engine speed governors		88		L-AMAX (FAST) NTE		Stationary wide open throttle accel to governed speed, neutral gear, clutch engaged	15.2 m FFRP						
	Interior	10/1/74	90	2	L-AMAX (FAST) NTE		Stationary run up to governed speed or max rated hp	FFRP 6 inches from driver's ear	Regulation Applies	Regulation Applies		On-road spot inspec- tions		
	Investigating need for labeling program for light trucks													
(Illinois)	<3629 kg	8/9/73	74		L-A ANSI S1.4- 1971	Passby ≤56km/h ≥3 grade	15.2m						En-use standard	
			76											
			82											
			85											

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	<3500 kg.	4/1/80	81	1	L <sub>A</sub> MAX	EEC Based on ISO R-362	Wheels open throttle after ap- proach at 1/4 max. power or 50 km/hr, whichever lower	7.5 m from path of the center line	Type Approval		--	Type Approval Tests		Published in O.J. No.: 166 of 3/12/77
	>3500 kg.	4/1/80	86	1										
	>12000 kg. and 200 hp	4/1/80	88	1										
SWEDEN	<3500 kg.	81 model year	81		L <sub>A</sub> MAX NTE	ISO R-362		7.5 m				Type approval tests only		
	3500 kg. - 12000 kg.	81 model year	86											
	>12000 kg. and 147 kw	81 model year	88											
CANADA	Light duty Truck		80	2	L <sub>A</sub> MAX (FAST) NTE	Canada Based on SAE J986a		15m	Reg Applied	Reg Applied				Test method suited to Canadian conditions
	<4500 kg		83	2	L <sub>A</sub> MAX (FAST) NTE	Canada Section 1106		15m						
	>4500 kg with govern- ed engines		83	2	L <sub>A</sub> MAX (FAST) NTE	Canada Section 1106 CSA Z107.22 in 1977	Passby Stationary	15m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
CANADA (continued)	>4500 kg Interior		90		LAMAX (FAST) NTE	CSA Z107.23 M 1977		at Operator Door						
IRELAND	Regulation	Implementing EEC Direct	Level on motor vehicle no se											
JAPAN	<p>&lt;3500 kg</p> <p>Domestic: 1/1/79- Gas</p> <p>&gt;3500 kg &lt;200hp</p> <p>Imports: 1/1/81</p> <p>&gt;3500 kg &gt; 200 hp</p>	<p>81</p> <p>74</p> <p>86</p> <p>78</p> <p>86</p> <p>80</p>	0		<p>LAMAX (FAST) NTE</p> <p>National Procedure for Cruise &amp; Stationary</p>	<p>Slightly Modified ISO/ R362 for accel</p> <p>Acceleration</p> <p>Cruise &amp; Stationary</p> <p>Acceleration</p> <p>Cruise &amp; Stationary</p> <p>Acceleration Cruise &amp; Stationary</p>	<p>7.5 m to left for acceleration</p> <p>7 m to left for cruise</p> <p>20m to rear for station- ary</p>	<p>Reg. Applies</p> <p>Reg. Applies</p> <p>Reg. Applies</p> <p>Reg. Does not Apply</p>				<p>Manufacturers test levels and submit records on prototype; Ministry of Transport determines conformity on basis of records and its own test; Ministry issues type approval; manufacturer conducts spot checks; Ministry reviews data, conducts own spot checks; no non- conforming vehicles can be operated.</p>		<p>Crating-60z max power or 35km/h (whichever lower) Stationary-60% max power</p>

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Mexico	>2727 kg <3500 kg	Jan. 2, 1976	Pre-77 Model 88 77-78 83 1979 & Later 83	I_A	NOM AA/37	Accelera- tion	15m	Applies	Applies	Applies			National Standard based on SAE J186 and SAE J366b	
	>3500 kg <11000 kg													
	>11000 kg													

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
NETHERLANDS	In accordance with EEC	5/27/71		0 for confor-mi-ty 2 for police control]	L <sub>A</sub> MAX (FAST) NTB	Based on EEC Directive 70/157/EEC		7.5m						
		4/1/81	In accord- ance with EEC Direc- tive 77/212 EEC		L <sub>A</sub> MAX (FAST) NTB	Based on EEC Directive 77/212/EEC								
DENMARK	<3500 kg	2/20/69	B5	0	L <sub>A</sub> NTB	ISO/ R362 (1964) ISO/DIS 362.2 (1980)		7.5m				Type approval, stationary survey test also carried out, for vehicles over 1 year old noise level must not exceed survey level by more than 3 dB		Test method same as ECE Addendum B
		10/1/82	B1	0	L <sub>A</sub> NTB	Regulation	Under Development							

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

ORIGINAL ENGLISH

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Check/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
DENMARK (Continued)	>3500 kg petrol or gas	2/20/69		86	0	L <sub>A</sub> NTE	Denmark-developed stationary, atkae on both sides 0.2m ht., petrol or gas run at 3/4 max power, max govern- ed speed for diesel	7m				All vehicles will be tested when registered with police before receiving license plates		Test procedure used with small modification since 1969
	diesel			88	0	L <sub>A</sub> NTE								
	>3500 kg	10/82	86			L <sub>A</sub> NTE	EEC 77/212							
	>200hp >12000 kg	10/82	88			L <sub>A</sub> NTE		Regulation under development						
Australia	<3500 kg 3500 kg - 12,000 kg >12,000 kg. <50 kw >12,000 kg >150 kw	7/74 gas 7/75 diesel 7/80				L <sub>A</sub>	Based on ECE Reg. 9	50 km/hr or 75% of speed at NEP, or 75% of max speed allowed by governor- whichever is lower. 20m section-throats full open at beginning of	7.5 m to side 10 m from start of section					Max of 2 measurements on each side

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Continued)	In-use gas or LPG: ≤ 3500 kg ≥ 3500 kg			0	L <sub>A</sub>		Stationary No load acceleration to governed RPM, slow to idle	1 m from exhaust						Mean of consecutive readings with 1 dB Cost of test tracks - prohibitive for in-use moving vehicle testing
	Diesel: ≤ 3500 kg ≥ 3500 kg - 12,000 kg ≥ 12,000 kg													
(Victoria)	Diesel: ≤ 3500 kg 3500 kg-12,000 kg ≥ 12,000 kg			0	L <sub>A</sub>									In-use vehicle regula- tion, Average of 4 consecutive measurements with 1dB range, Regulation in support of Australian Environment Council document.
	Gas or LPG: ≤ 3500 kg 3500 kg - 12,000 kg ≥ 12,000 kg													
Tasmania	< 3500 kg 3500 kg - 12,000 kg ≥ 12,000 kg NEP, < 150 kw	1977		0	L <sub>A</sub> NTE	ADR 28, ADR 28A								New product and in-use regulations, see Australian National regulation

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
UN/ECE	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Belgium	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		Stricter limits under develop- ment in accoun- tance with UN/ECE draft regulation
Czechoslovakia	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Finland	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Hungary	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Italy	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Romania	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12 1974	84 89 91	I	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM TRUCKS**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Truck-Mounted Garbage Compactors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A.	Truck-mounted solid waste compactors	10/1/80 7/1/83	79 76	0 0	L <sub>A</sub> MAX (SLOW) NTE L <sub>A</sub> MAX (SLOW) NTE	EPA Developed	Vehicle Stationary, empty, run at max. allowable or govern- ed speed of hydrau- lic pump, operate through 2 complete cycles of compactor	7 m PPRP	See Compli- ance checks	Same as Domestic	Regulation does not apply	Mfr. or EPA tests one sample of each vehicle configuration; Optional Selective Enforcement Audit; Inspection of Facil- ties; Reports; Recall; Cease to Distribute		
Sweden (Stockholm)	Compactor truck		70		dBAMAX NTE		Loading	3 m from truck site						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Truck-Mounted Refrigeration Units**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A*	Identified as major source of noise; regulation under development													

\* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM BUSES**

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM BUSES .**

**SUMMARY OF NATIONAL, REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_ bases**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM buses**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Continued) (Victoria)	Diesel: ≤ 3500 kg 3500 kg – 12000 kg ≥ 12000 kg Gas or LPG: ≤ 3500 kg 3500 kg – 12000 kg ≥ 12000 kg			0	L_A									In-Use vehicle regulation, average of 4 consecutive measurements within 1dB range, regulation in support of Australian Environ- ment Council Document
(Tasmania)	< 3500 kg 3500 kg – 12000 kg ≥ 12000 kg NEP, < 150 kw	1977		0	L_A NTB	ADR 2B, ADR 28A								New product and in-use regulation. See Australia National Regulation
Belgium	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Czechoslovakia	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Poland	≤ 3500 kg ≥ 3500 kg ≥ 12000 kg & ≥ 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM - 1984**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Onnes**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Denmark	>1500 kg petrol or gas	2/20/69	86	0	L <sub>A</sub> NTE	Denmark developed	Stationary Vehicle, 2 microphones 1.2 m ht., for petrol or gas at 3% max power for diesel at max. governed speed	7 m				All vehicles must be tested when registered with police before re- ceiving license plates		Test procedure used with small modifications since 1969
	diesel		88	0	L <sub>A</sub> NTE									
	<200 hp	10/82	82		L <sub>A</sub> NTE									
U. K.	>200 hp		85			77/212/ EEC	Under Development	7.5 m				Offense to use, sell non complying vehicle; Power to prohibit use of non-complying vehicles; Inspection before license to carry passengers issued.		Choice of ISO R 362 enabled single biome levels to be set with J101A test procedure correction factor over new vehicle levels
	<12 seats	1970	84	0	L <sub>A</sub> NTE									
	>12 seats	1970	89	0	L <sub>A</sub> NTE									
	>3500 kg & 200 hp	1970 <small>(97/91/EEC type approved 92/34/EE)</small>	80	0	L <sub>A</sub> NTE									
	<3500 kg	1983 <small>(92/34/EE)</small>	84	0	L <sub>A</sub> NTE									
	>3500 kg	1983	82		L <sub>A</sub> NTE									
	>3500 kg & 200 hp	1983	85		L <sub>A</sub> NTE									

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Busch**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Norway	<3500 kg ≥3500 kg ≥200 hp DIN			1	dB(A)MAX	ISO R362 ECE Reg. 9								
Switzerland	<3500 kg ≥3500 kg <147 kW	7/1/77 10/1/82 10/1/86	81 79 77											
	≥3500 kg ≥147 kW	7/1/77 10/1/82 10/1/86	85 82 80	1 for new product tests	L <sub>MAX</sub> (FAST)	ECE Reg. 9 3/26/74	Acceleration	7.5 m	Type test by Government lab				Type Approval (Nat. level) and Stationary tests for in-use controls every 3 years (State level)	
	Eng Ine Brakes	7/1/77 10/1/82 10/1/86	87 84 82											
	Eng Ine Brakes	7/1/77 10/1/82 10/1/86	86 86 84											
Yugoslavia	<1500 kg ≥1500 kg ≥12000 kg & ≥174 kW	Dec. 12, 1974	84 89 91	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Bus**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	>3500 kg	5/27/71	88 90 in Operation	0 for con- formity	I(BAHAX	EEC Directive 70/157/EEC		7.5 m						
	> 200 hp	5/27/71	92 94 in Operation	2 for police control	I(BAHAX	EEC Directive 70/157/EEC		7.5 m						
		4/1/81	Based on EEC Directive 77/42/EEC		L <sub>A</sub> MAX NTC	Based on EEC Dir- ective 77/212/EEC								
Portugal	< 5000 kg		85		I(BAHAX	ISO R362		7.5 m						
	>5000 kg		88		I(BAHAX	ISO R362		7.5 m						
U. S. A. <sup>*</sup>	>4536 kg GVWR	Effect- ive dates under develop- ment	Exterior 83 80 77 Interior 86 83 80	0	L <sub>A</sub> MAX (FAST) NTC	EPA Based on SAE J366B slightly modified	Wide open throttle to max rated engine speed NTC: 56 km/h	15 m FIRP	See Com- pliance checks	Same as Domestic	Regulation Does not Apply	Manufacturer or EPA tests; I sample of each vehicle configura- tion; Optional Selec- tive Enforcement Audit; Inspection of Facilities & Records; Recall; Ceas- or Distribute		

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM BUSES**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Autos**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks	
									Domestic	Imports	Exports				
EEC	< 9 Seats	4/1/80	80	1	L-AMAX	EEC based on ISO R362	Wide open throttle after up- approach at 3/4 max power or 50 km/h, whichever lower	7.5 m from path of the center line	Type Approval		-	Type Approval tests		Published in OJ, No.: L 66 of 3/12/77	
Sweden	Passenger car	81 model year	80		l-AMAX NTE	ISOR362		7.5 m				Type approval tests only.			
Ireland	Regulations implementing EEC directives on motor vehicle noise.														
Japan	10 persons or less	Domestic : 1/1/79 Gas 4/1/79 Diesel Imports : 1/1/81	81		0	l-AMAX (FAST) NTE	Slightly modified ISO/R362 for acceler- ation Nation- al Procedure for Cruise and Stationary	Acceler- ation Cruise & Station- ary	7.5 m to left for acceleration 7 m to left for cruise 20 m to rear for stationary	Reg. applies	Reg. applies	Reg. applies	Manufacturers test levels; submit records on prototypes; Ministry of Transportation determines conformity on basis of records submitted and its own tests; Ministry issues type approval; manufac- turers conduct spot checks; Ministry reviews data; con- ducts own spot checks; no non-conforming vehicle can be operated.		Cruising 60% max power in 35 km/h (whichever lower)
	Domestic : 10/1/82	78	Acceleration Cruise & Stationary									Stationary 60% max power.			
	Imports : 4/1/84	70													
Netherlands	Planned 4/1/81		0 for con- formity; 2 for police control		l-AMAX NTE	Based on EEC Directive		7.5 m							

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Autos**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands (Continued)	Noise labeling program under development				LA Statistical maximum of series	ECE proposal 10/8358/80						Levels to be declared by manufacturer, registration of declared value required before series allowed to be put on market for sale		
France	Exhaust noise		82		dB(A)		Full throttle acceleration - max rpm - max rpm or max rpm for diesel	7.5 m						
	Engine noise		87		dB(A)		Stationary run up - 5% rpm of max power or max rpm for diesel	0.5 m						
Italy		Dec. 12, 1974	82	1	dB(A) Max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Mexico	All types	Pre 1977 Model 1977-78 Model 1979 Model & LATER	86 83 80		dB(A)	NOM AA/37		15 m	Applies	Applies	Applies			

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Autos**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Autos**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Canada	Light duty vehicles		80	2	L <sub>A</sub> MAX (FAST) NTE	Canada based on SAE J986a		15m	Reg Appl'ns	Reg Appl'ns				Test method subjected to Canadian conditions
Switzerland	Passenger cars	7/1/77 10/1/82 10/1/86	80 77 75	1 for new product	L <sub>A</sub> MAX (FAST)	ECE Reg 9 1/26/74	Acceler- ation	7.5 m	Type test by Government lab	---	---	Type Approval (National level) and Stationary tests for in-use controls every 3 years (State level)		
Australia	Passenger cars and derivatives	1/74			L <sub>A</sub>	Based on ECE Reg. 9	Moving vehicle 50 km/h or 75% of speed at NED, or 75% max governed speed, whichever lower, 20m course - full open throttle at start, full closed at end	7.5m to side, 10m from start of course						Maximum of at least 2 measurements on each side
	In-use All types of passenger cars	1/81		0	L <sub>A</sub>	Based on draft ISO R362	Stationary 75% max power							Average of 4 consecutive readings within 1 dB(A). Cost of test tracks prohibitive for in-use moving vehicle tests

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM ... Autos ...**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Continued) (New South Wales)	In-service vehicles	7/1/79	96		dBA		75% of max power	0.5m from exhaust						
(Victoria)	Passenger cars and derivatives		0	L <sub>A</sub>										In-use regulation Average of 4 consecutive readings within 1 dB range. See Australian National regulation
(Tasmania)	Passenger cars	1977	0	L <sub>A</sub> NTE	ADR 28, ADR 28A									New product and in-use regulation. See Australian National regulations
U.S.* (Illinois)	Investigating need for labeling program for autos	8/9/73												
	Passenger cars		74	L <sub>A</sub>	ANSI S1.4- 1971	0-56km/h ≥3° grade ≥56km/h ≥3° grade	15.2m							In-use

\* Due to uncertainties concerning the United States Noise Regulatory Program,  
the above list of anticipated regulatory actions should be considered  
tentative, except where regulations have already been issued.

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM AUTOMOBILES**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM ... Autor**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Czechoslovakia		Dec. 12, 1974	82	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Finland		Dec. 12, 1974	82	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Hungary		Dec. 12, 1974	82	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Romania		Dec. 12, 1974	82	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Spain		Dec. 12, 1974	82	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Yugoslavia		Dec. 12, 1974	82	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	≤ 80cc	10/1/80	78	1	L <sub>A</sub> MAX (FAST)		Approach Speed of 50-10% of Max rpm, gear vari- ed by number of gears, cy- linder capacity type of engines Open Throt- tle Through Test Area Stationary Runup-1s Max rpm if >5000 rpm, % Max rpm if ≤ 5000 rpm	7.5m from path of the center line	Type Approval			Type Approval Tests		Published in O.J. No.: L.349 of 12/11/78
	≤ 125cc		80	1										
	≤ 350cc		83	1										
	≤ 500cc		85	1										
	> 500cc		86	1				0.5m From Exhaust FFRP						
Canada			86	2	L <sub>A</sub> MAX (FAST) NTE	Canada Based on SAB986a		15m	Reg Applies	Reg Applies				Test Method Suited to Canadian Conditions
Mexico	Pre 68 model 68-75 76-78 78 and later		93 92 89 84		L <sub>A</sub>	NOM AA/41	Acceleration	7.5 m	Applies	Applies	Applies			

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	>125 cc	Domestic 4/1/79	78	0	L <sub>A</sub> MAX (FAST) NTE	Modified ISO/R362 for acceleration	Acceleration Cruise & Stationary	7.5 m to left for acceleration 7 m to left for cruise 20 m to rear for stationary	Reg. Applies	Reg. Applies	Reg. Does Not Apply	Manufacturer Test Levels; Submit Records on Prototype; Ministry of Transport Determines Conformity on Basis of Records Submitted and Its Own Tests; Ministry Issues Type approval; manu- facturers conduct spot checks; Ministry review data, conducts own spot checks; no non-conform- ing vehicles can be operated.		Cruising 60% max power at 15 km/h 25 km/h for 1st class motor-driven cycle (<50 cc), whichever lower; Stationary 60% max power; Test speeds & gear ratios different to concede better to actual cruising speed; noise levels about 3dB lower than with ISO/R362
		Imports 4/1/81	74	0		National Procedure for cruise & stationary	Acceleration							
	< 125 cc	75	0				Cruise & Stationary							
		70												
Netherlands	In accordance with EEC Directive 70/157/EEC	5/27/81		0 for Con- formity	L <sub>A</sub> MAX NTE	Based on EEC Direc- tive 70/157/ EEC		7.5m						
		Planned 7/1/81	In accord- ance with EEC Direc- tive 77/ 212/BBC	2 for Police Control	L <sub>A</sub> MAX NTE	Based on EEC Directive 77/212/EEC								
USA	Street	1/1/83 1/1/86	83 80	0	L <sub>A</sub> MAX (FAST) NTE	EPA Based on Adapt- ed SAE- 331a	Approach Test Area in 2nd Gear at 50% Max RPM or 1000 RPM, 0.02, with open Throt- tle Through Test Area to Closing open Same Mea-	15 m EPRP*	See Com- plained Checks	Same as Domestic	Regulation Does Not Apply	MFR, or EPA Tests + Sample of Each Vehicle Configuration; Optional Selective Enforcement Audits; Inspection of Facilities and Records; Recall; Cease to Distribute		
	Offroad <170cc	1/1/83 1/1/86	83 80											
	>170cc	1/1/83 1/1/86	86 82											
	Replacement Exhaust Systems	Must Meet Same Levels on Same Dates with Same Mea-												

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM \_\_\_\_\_  
Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Denmark	≤ 80ccm	2/20/69	82	0	L <sub>A</sub> NTB	ISO/R 362-1(1964)		7.5 m				Type Approval; Survey Stationary Test Carried Out; Bikes Over 1 Year Old Cannot Exceed Survey Level by More Than 3dB(A)		Test Method is Same as Suggested by ECE WP29
	≤ 125 ccm		82											
	≤ 350 ccm		84											
	≤ 500 ccm		84											
	> 500 ccm		86											
	≤ 80 ccm	10/1/82	78	0	L <sub>A</sub> NTB	Plan to Use EEC Test Pro- cedure 78/1015/ EEC	Under Development	7.5 m						EEC Test is More Severe and Will, Other Things Being Equal, Give Higher Noise Level Than Existing Test, Thus Values Will be the changed
	≤ 125 ccm		80											
	≤ 350 ccm		83											
	≤ 500 ccm		85											
	> 500 ccm		86											
U.K.	< 50 cc	1970	77	0	L <sub>A</sub> NTB	BS3425: 1966, Substan- tially ISOR362	Average of 3 Read- ings on Noisiest Side, Rounded Down to Next Whole Number	7.5 m				Offense to Sell or Use Non-complying Vehicle		Choice of ISO R362 Enabled Simplified Use Levels To Be Set with 3dB(A) test procedure correction factor over new vehicle levels
	50-125 cc	1970	82	0	L <sub>A</sub> NTB									
	> 125 cc	1970	86	0	L <sub>A</sub> NTB									
	(Because of Differences in Test Pro- cedures Some Large Motorcycles Designed to 86dB(A) Would Indi- cate 83dB(A) When Test- ed in EEC Procedures)													
	≤ 80 cc	1982	78	0	L <sub>A</sub> NTB				EEC		7.5 m			
	≤ 125 cc		80	0										
	≤ 350 cc		83	0										
	≤ 500 cc		85	0										
	> 500 cc		86	0										

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Moticycles**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
UN/ECE	< 80 cm <sup>3</sup> 125 cm <sup>3</sup> 350 cm <sup>3</sup> 500 cm <sup>3</sup> > 500 cm <sup>3</sup>	June 1, 1980	78 80 83 85 86	± ± ± ± ±	dBA Max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
Australia	< 125 cc 125 - 500 cc > 500 cc	7/74			L-A	Based on ECE Reg. 9	Moving vehicle 50 km/h, or 75% speed at NEP, or 75% gov- erned speed whichever lower, 20m course throttle full open at start; full closed at end	7.5 m to side, 10 m from start of course						Max of 2 measure- ments on each side
	In-Use All types			0	L-A	Draft ISO R362	Stationary, 50% max power							Average of 4 con- secutive readings, within 1dBA, cost of test tracks pro- hibitive for in-use, moving vehicle tests

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	< 50 cc	1966	79 84	2	L <sub>A</sub> , max	Substantial ly ISO R 362	Accelerated Pass-by (wide-open throttle)	7.5 m	✓	✓		Type Approval		
	≥ 50 cc													
	✓ 80 cc	1980	78 80 83 85 86	1	L <sub>A</sub> , max	see EEC	see EEC	Same	✓	✓		Same		
	✓ 125 cc													
	✓ 250 cc													
	✓ 350 cc													
	✓ 500 cc													
	✓ ≥ 500 cc													
Czechoslovakia	✓ 80 cm <sup>3</sup>	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	EEC Reg. 41	7.5 m				ECE Reg. 41		
	✓ 125 cm <sup>3</sup>													
	✓ 250 cm <sup>3</sup>													
	✓ 350 cm <sup>3</sup>													
	✓ 500 cm <sup>3</sup>													
Italy	✓ 80 cm <sup>3</sup>	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	EEC Reg. 41	7.5 m				ECE Reg. 41		
	✓ 125 cm <sup>3</sup>													
	✓ 250 cm <sup>3</sup>													
	✓ 350 cm <sup>3</sup>													
	✓ 500 cm <sup>3</sup>													
Spain	✓ 80 cm <sup>3</sup>	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	EEC Reg. 41	7.5 m				ECE Reg. 41		
	✓ 125 cm <sup>3</sup>													
	✓ 250 cm <sup>3</sup>													
	✓ 350 cm <sup>3</sup>													
	✓ 500 cm <sup>3</sup>													

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Belgium	2-wheeled : 2-stroke : 50-125 cm <sup>3</sup> > 125 cm <sup>3</sup> 4-stroke : 50-125 cm <sup>3</sup> 125-500 cm <sup>3</sup> > 500 cm <sup>3</sup> 3-wheeled : > 50 cm <sup>3</sup>	Dec. 12, 1974			82 84 82 84 86 85	1 dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m			ECE Reg. 9		
Poland	2-wheeled : 2-stroke : 50-125 cm <sup>3</sup> > 125 cm <sup>3</sup> 4-stroke : 50-125 cm <sup>3</sup> 125-500 cm <sup>3</sup> > 500 cm <sup>3</sup> 3-wheeled : > 50 cm <sup>3</sup>	Dec. 12, 1974			82 84 82 84 86 85	1 dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m			ECE Reg. 9		
Hungary	2-wheeled : 2-stroke : 50-125 cm <sup>3</sup> > 125 cm <sup>3</sup> 4-stroke : 50-125 cm <sup>3</sup> 125-500 cm <sup>3</sup> > 500 cm <sup>3</sup> 3-wheeled : > 50 cm <sup>3</sup>	Dec. 12, 1974			82 84 82 84 86 85	1 dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m			ECE Reg. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Romania	2-wheeled: 2-stroke: 50-125 cm <sup>3</sup> > 125 cm <sup>3</sup> 4-stroke: 50-125 cm <sup>3</sup> 125-500 cm <sup>3</sup> > 500 cm <sup>3</sup> 1-wheeled: > 50 cm <sup>3</sup>	Dec. 12, 1974	82 84	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		
Yugoslavia	2-wheeled: 2-stroke: 50-125 cm <sup>3</sup> > 125 cm <sup>3</sup> 4-stroke: 50-125 cm <sup>3</sup> 125-500 cm <sup>3</sup> > 500 cm <sup>3</sup> 3-wheeled: > 50 cm <sup>3</sup>	Dec. 12, 1974	82 84 82 84 86 85	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Japan	Motor driven cycles	Domestic- 4/1/79; Imports 4/1/81	75	0	L-AMAX (FAST) NTE	Modified ISO/R362 for acceleration	Acceleration	7,5 m to left for acceleration	Reg. Applies	Reg. Applies	Reg. does not apply	Manufacturers test level; submit records on prototypes; Ministry of Transport determines conformity on basis of records submitted and its own tests. Ministry issues type approval; manufacturers conduct spot checks; Ministry reviews data, conducts own spot checks; no non-conforming vehicle can be operated		Cruising: 60% max power or 35 km/h 25 km/h for 1st class motor driven cycle (<50 cc), whichever lower; Stationary: 60% max power; Test Speeds & Gear Ratio Different to Cylinder Bore Actual Cruising Speeds, Noise Levels dB(A) Lower than with ISO/R362
Netherlands	Max speed 40 km/h	4/21/76	73	Police control at 50 cm max 102; Planned for 7/1/81, 98	L-AMAX (FAST) NTE	Netherlands Test Standard	Top Speed full throttle	7 m FFRP				Type Approval		No comparable ISO tests exist
	Max speed 20 km/h	4/21/76	67	Police con- trol at 50 cm, max 102; planned for 7/1/81, 98; IDB for conformity checks			Top Speed full throttle	7m FFRP				Type Approval		
			89				Stationary- alternate open & close throt- tle to pro- duce max engine speed	50 cm						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Mopeds**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.	Moped type street motorcycle	1/1/83	70	0	L <sub>A</sub> MAX (FAST) NTE	EPA based on SAEJ331a	75-80 kg payload, max speed, full open throttle partly in highest gear	15 m FFRP	See Compliance Checks	Same as domestic	Regulation does not apply	Manufacturer or EPA tests, 1 sample of each vehicle configuration. Optional Selective En forcement Audits, Inspection of Facilities and Reports, Recall, Cease to Distribute.		
Replacement exhaust systems must meet the same levels on same dates with same measurement procedures.														
Denmark	50 ccm power of 1 kW, max speed 30 km/h	2/20/69	76		L <sub>A</sub> NTE	ISO/R 362 (1964) ISO/DIS 362.2 (1980)		7.5m				Type Approval		Test method same as suggested by ECE WP 29
U.K.		1970	77	0	L <sub>A</sub> NTE	BS 3425 (1966)	Average of 3 readings on noisiest side, round ed down to next whole number	7.5m				Offense to sell or use non-complying vehicle		Same as ISO/R362 enable sample in use levels to be set with 1/3BA test procedure correction factor over new vehicle levels
		1983	73	0	L <sub>A</sub> NTE	EEC Test								
Norway	<50 ccm 50-125 ccm ≥125 ccm			1	d <sub>DN</sub> AMAX	ISO/R 362 ECE Reg 9	Max speed							
Switzerland	moped, motorized bicycle	7/1/77 10/1/82 10/1/86	68 67 66	1 for new products	L <sub>A</sub> MAX (FAST)	National test procedure	Max speed pass-by	7.5 m	Type test by Government lab	---		Type Approval (Nat. level) & stationary test for in-use controls every 3 years (Statu level)		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Mopeds**

ORIGINAL ENGLISH

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM General Motor Vehicles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Tasmania)						ADR 28 ADR 28A	VENSAC	In-service stationary				Type approval for new vehicles, owner brings to inspection station		
(Victoria)						ADR 28 ADR 28A						Offense to sell non-complying vehicles		
Western Australia						ADR 28	50% max speed for motor- cycles in neutral gear, 75% max power for all 4-wheel vehicles	0.5m from exhaust				Must comply before registration		

**IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS  
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,  
OR IS ANTICIPATED WITHIN FIVE YEARS**

Product : Aircraft	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Helicopters		U.S., ICAO, U.K.	
Fixed Wing Aircraft	Denmark, U.K., Japan, Ireland, Norway, EEC, U.S., ICAO Switzerland, W. Germany		

**SUMMARY OF NATIONAL, REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Helicopters**

ORIGINAL ENGLISH

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

## **SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	Subsonic jet, propeller <5700 kg				EPNdB	ICAO annex 16 ch. 2, 3,5,6						Type certification by manufacturers, enforcement by national authorities, no non-noise certi- ficated subsonic jets can be added to nation- 1 registers after 1/21/80, or light propeller planes after 6/21/80, no non- noise certifi- cated planes >20000 kg can be operated after 12/1/88 unless modified to meet stand- ard, or after 12/31/88 if to be replaced by a plane meeting standard		For new and in-use air- craft
United States FAR 36; Stage 2	>272160 kg $\leq$ 34020 kg	12/1/69	108 93 (reduced by 5 EPNdB per halving of weight between extreme)		EPNdB	U.S. Based	Take- off	6500m from start of takeoff roll				Requires new design aircraft to be certifi- cated to meet noise levels		Levels may be exceeded up to 2 points if sum of exceedances not >3 EPNdB, no exceedance

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks	
									Domestic	Imports	Exports				
U.S.A. (cont.) Part 36-3: Acoustical Change Approvals		1/20/75													
Part 36-4: Noise Standards for Pro- peller Driven Small Air- planes and Acoustical Change Pro- visions	<5670 kg	2/7/75	Stage 2												
Part 36-5: Noise type certifica- tion and Acoustical Change Approvals		1/24/77													
Part 91-136 Phased Compliance with Part 36 Noise Limits by Turbojets with Maxi- mum weight greater than 75,000 lbs.	> 34020 kg	1/24/77										Set phased com- pliance schedule for all U.S. fleet not in foreign commerce to be brought into compliance with Stage 2 no matter what date of design or manufacture		Compliance by retrofit or replacement	

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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									Domestic	Imports	Exports			
U.S.A. (cont.) FAR 36-6: Modifications to Noise Test Provisions for Propul- ler Driven Small Air- planes		1/24/77												
FAR 36-7: Noise Level Limits and Acoustical Change Requirements for Subsonic Transport Category Large Air- planes and for Subsonic Turbojet Powered Air- planes		10/1/77												
FAR 91-134: Minimum Certified Landing Flap Setting		1/28/77												operator re- quired to use lower-than-max flap setting unless pilot determines that weather, runway, or other safety factors re- quire the max [imum]

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A. (cont.) FAR 36-84 Stage 3	> 3 engines ≥ 385560 kg	5/5/75	106		EPNdB		Takeoff	6500 m from start of takeoff roll						In substantial conformity with modifications to standards recommended by ICAO, levels can be exceeded at 1 or 2 points. If sum of exceedances is not >3EPNdB, no exceedance >2EPNdB, and exceedances are offset by reductions at other measuring points.
	≤ 20263 kg		89 (reduced by 4EPNdB per halv- ing of weight between extremes)											
	3 engines ≥ 385560 kg		104											
	≤ 28657 kg		89 (reduced by 4EPNdB per halv- ing of weight)											
	< 3 engines ≥ 385560 kg		101											
	≤ 48195 kg		89 (reduced by 4EPNdB per halv- ing of weight)											

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM FIXED WING AIRCRAFT**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A. (continued)	$\geq 400075 \text{ kg}$ $\leq 35018 \text{ kg}$		103  94 (reduced by 2.56 CPNDB per halv- ing of weight)		EPNdB		Sideline	450 m from point after liftoff where noise is greatest						
	$\geq 280007 \text{ kg}$ $\leq 35018 \text{ kg}$		105  94 (reduced by 2.33 CPNDB per halving of weight)		EPNdB		Approach	2000 m from threshold of runway						
FAR 36-9; Aircraft Noise Measurement and Evaluat- tion Spec- ifications		4/3/78												

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A. (cont'd) FAR 36-10 & FAR 91-151: Civil Supersonic Alt- planes, Noise and Sonic Boom Requi- rements	SST except those with flight time before noise 1/1/80	7/1/78	Stage 2											Operators of SST's prohibited, except over specified test routes, from conducting operations over speed of sound that might cause sonic booms
FAR 91-171: Operating Noise Limits for Certain Turbojet Airplanes Engaged in Domestic or Foreign Air Commerce in the United States		1/1/81 1/1/81 1/1/85												Aircraft whether of U.S. or foreign registry must meet at least Stage 2 noise levels in order to be operated in U.S. after effective dates

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO 3 Ed. Chapter 2	Subsonic Je protoype accepted be fore 10/6/7 and derived versions with bypass ratio < 2	≥ 272000 kg	108		EPNdB		Sideline	650m from point on runway where noise is max during takeoff						levels can be exceeded at 1 or 2 points but sum of excesses can not exceed 4 EPNdB (5 EPNdB for 4 engines), no point exceeded by more than 3 EPNdB, all excesses must be offset by reductions at other points
			102 (Varies with weight between extremes)		EPNdB		Approach	2000m from runway threshold						
		≥ 272000 kg	108		EPNdB		Flyover	650m from start of roll						
		≤ 34000 kg	93 (Varies with weight between extremes)		EPNdB									

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
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**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS  
CONCERNING SOUND EMISSION FROM Fixed Wing AIRCRAFT**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO (Continued)	2 engines $\geq 385000$ kg		101		EPNdB		Flyover	6500 m from start or roll						
			89 (varies with weight)											
			104		EPNdB		Flyover	6500 m						
			89 (varies with weight)											
	24 engines $\geq 385000$ kg		106		EPNdB		Flyover	6500 m						
			89 (varies with weight)											
			105		EPNdB		Approach	2000 m from runway threshold						
			98 (varies with weight)											
Chapter 5	Propeller driven airplanes $> 5700$ kg		96		EPNdB		Sideline	450 m from point of runway where takeoff noise is max						Levels can be exceeded at 1 or 2 points but sum of excesses can not be $> 3$ EPNdB, any 1 excess can not be $> 2$ EPNdB, any excess must be offset by reductions at other point
	$\leq 34000$ kg		103 (varies with weight)											

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