

Noise Prevention Techniques

Generally, an effective and satisfactory noise prevention measure usually requires only advanced management and community communication. We provide some effective solutions to several common noise problems.

◎ Management Measures:

1. Change part of the operation methods, such as the turning off of unnecessary equipments at nights, to reduce nighttime noise.
2. Establish periodic maintenance and equipment repairing rules.
3. Negotiate with neighbor residents for proper solution. Positively connect with the community to find out a compromise.

◎ Common Noise Problems:

Problem 1: Large volume amplifier in public places (e.g. Karaoke, announcement in bus station or shops)

◎ Prevention Measures:

1. Adjust to proper volume and mark on the amplifier for self-control
2. Improve indoor soundproof (sound-absorption, sound-insulation) and vibration-proof facilities, to prevent direct sound spreading to outdoor or transferring to low frequency noise by structural vibration (spreading further).
3. Keep good relationship with local community: communicate with neighbors often. Voluntarily notify them when large volume is expected.

Problem 2: Old equipment without periodic maintenance produces abnormal loud noise.

◎ Prevention Measures:

1. Regularly perform equipment check up to ensure equipment is in good useable condition.
2. Replace old components, maintain the equipment periodically, and keep the maintenance record available.
3. Replace with new equipment.

Problem 3: Equipment produces large volume of noise during operation

◎ Prevention Measures:

1. Regularly perform equipment check up to ensure equipment is in good useable condition.
2. Maintain the equipment periodically, and keep the maintenance record available.
3. Keep good relationship with local community; negotiate to find a common consensus with them
4. Add a noise prevention facility.

Number Noise Prevention Counseling Cases over the Years

30 cases in 2008

31 cases in 2007

25 cases in 2006

42 cases in 2005

50 cases in 2004

Information for Noise Prevention Companies

The Acoustical Society of R.O.C

TEL: 02-23831737

FAX: 02-23831695

Chinese Society of Sound and Vibration

TEL: 02-3366-3251

FAX: 02-3366-1859

Taiwan Environmental Manufacturers Association

TEL: 02-2921-6626

FAX: 02-2921-6639

Taiwan Environmental Engineering Association

TEL: 02-2543-1099

TEL: 02-2521-9452

Taiwan Refrigeration and Air-Conditioning Engineering Association

TEL: 02-2768-5423

FAX: 02-2766-4744

Web Links:

Web Links of Environmental Protection Administration, Executive Yuan

Noise Control Network

Noise Control Acts and Regulations

Web Links of Department of Environmental Protection, Taipei City Government

Department of Environmental Protection, Taipei City Government

Environmental Inspection Division, Department of Environmental Protection, Taipei City Government

Taipei Noise Restriction Information System

Other Links:

The Acoustical Society of R.O.C

Chinese Society of Sound and Vibration

Taiwan Environmental Engineering Association

Taiwan Refrigeration and Air-Conditioning Engineering Association

Relevant Regulations:

Noise Control Regulations:

1. Noise Control Act
2. Enforcement Rules of Noise Control Act
3. Noise Control Standard
4. Establishment and Operation Permission Measures for Facilities with Noisy Tendency

Administration Regulations:

1. Noise Control Zone Delineation Principles
2. Public Safety Maintenance Scheme—Firecrackers and Firework Safety Management
3. Letter on Executing Tribunal for Noise Control Act Violation Cases

Attachment 1: Noise Control Standard of Promulgated Facilities in Taipei City

Unit: dB(A)

Volume		Frequency		20Hz~200Hz			20Hz~20kHz		
		Time Section		Day	Night	Night	Day	Night	Night
Control Zone				Day	Night	Night	Day	Night	Night
Class 1				32	32	27	55	50	35
Class 2				37	32	27	57	52	42
Class 3				37	37	32	67	57	47
Class 4				40	40	35	80	70	60

Note: The relevant rules of determining time section, classification of Control Zone, unit of volume, measurement instrument, measurement height, dynamic characteristics, modification to background volume, measurement time, measurement site, evaluation method, are in accordance with Noise Control Standard, Article 6.

Attachment 2: Noise Control Standard of Promulgated Construction Works in Taipei City

Unit: dB(A)

Volume		Frequency		20 Hz~200 Hz , enforced since 01/01/2009			20Hz~20kHz		
		Time Section		Day	Night	Night	Day	Night	Night
Control Zone				Day	Night	Night	Day	Night	Night
Equivalent Sound Level (L _{eq})	Class 1			44	44	39	67	47	47
	Class 2			44	44	39	67	57	47
	Class 3			46	46	41	72	67	62
	Class 4			49	49	44	80	70	65
Maximum Sound Level (L _{max})	Class 1 & 2						100	80	70
	Class 3 & 4			-			100	85	75

Note: The relevant rules of determining time section, classification of Control Zone, unit of volume, measurement instrument, measurement height, dynamic characteristic, modification to background volume, measurement time, measurement site, evaluation method, are in accordance with Noise Control Standard, Article 4.