

# POTENTIAL MOE NOISE GUIDELINE NPC-300

PREPARED FOR AWMA  
MAY 8, 2012

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# Purpose of the MOE Noise Guidelines

- ▣ **Land-use Planning:** stationary sources or sensitive land uses;
- ▣ **Environmental Approvals:** stationary sources, under Sect. 9 of EPA;
- ▣ **Compliance**

# Current MOE Noise Guidelines

- ▣ LU-131 - **Noise Assessment Criteria in Land Use Planning**
- ▣ NPC-205 - **Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)**
- ▣ NPC-232 - **Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)**

# Current Problems

- ▣ Inconsistencies between guidelines
- ▣ Lack of clarity
- ▣ Disconnect between land use planning & environmental approvals (compatibility issues)

# NPC-300

- ▣ Replaces LU-131, NPC-205/232 with one document
- ▣ Part A: common material; definitions, etc
- ▣ Part B: stationary sources
- ▣ Part C: land use planning; stationary sources & sensitive uses



# Class 4 Area

- ▣ Otherwise would be Class 1 or 2
- ▣ New sensitive uses not yet built
- ▣ Proximity to existing stationary source
- ▣ Approval authority must approve Class 4
- ▣ Existing cannot be reclassified
- ▣ Less stringent sound limits
- ▣ Can be site specific
- ▣ Assumes closed windows and A/C

# Sound Level Limits (Stationary Sources)

- ▣ Currently LU-131 & NPC-205/232 not identical re stationary sources.
- ▣ NPC-300 *is consistent* – same in Part B & C.

# Sound Limits – Stationary Sources

**Table B-1 Exclusion Limits, ( $L_{eq1}$ , dBA)  
Outdoor Points of Reception**

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00-19:00	50	50	45	55
19:00-23:00	50	45	40	55

**Table B-2 Exclusion Limits, ( $L_{eq1}$ , dBA)  
Plane of Window – Sensitive Spaces**

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00-19:00	50	50	45	60
19:00-23:00	50	50	40	60
23:00-07:00	45	45	40	55



# Sound Limits – Stationary Sources

**Table B-3 Exclusion Limits - Impulses, ( $L_{eq1}$ , dBAI)  
Outdoor Points of Reception**

Time of Day	# of Impulses/Hr	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00-23:00	9 or more	50	50	45	55
	7 to 8	55	55	50	60
	5 to 6	60	60	55	65
	4	65	65	60	70
	3	70	70	65	75
	2	75	75	70	80
	1	80	80	75	85

# Sound Limits – Stationary Sources

**Table B-2 Exclusion Limits - Impulses, ( $L_{eq1}$ , dBAI)  
Plane of Window – Sensitive Spaces (Day/Night)**

# of Impulses/Hr	Class 1 Area (07:00-23:00)/ (23:00-07:00)	Class 2 Area (07:00-23:00)/ (23:00-07:00)	Class 3 Area (07:00-23:00)/ (23:00-07:00)	Class 4 Area (07:00-23:00)/ (23:00-07:00)
9 or more	50/45	50/45	45/40	60/55
7 to 8	55/50	55/50	50/45	65/60
5 to 6	60/55	60/55	55/50	70/65
4	65/60	65/60	60/55	75/70
3	70/65	70/65	65/60	80/75
2	75/70	75/70	70/65	85/80
1	80/75	80/75	75/70	90/85

# Background (Ambient) Sound Level

- ▣ Highly intrusive sound transients – trains, planes normally excluded.
  
- ▣ Under special circumstances, now can include these sources:
  - but Not in Class 3 Area
  
  - if .
  
- ▣ Subtract 10 dBA before adding in.
  
- ▣ May include existing stationary sources (approved & in compliance).

# Enclosed Noise Buffer

- ▣ Eg enclosed balcony
- ▣ Only in Class 4 area
- ▣ Buildings 4 stories
- ▣ unit/floor (eg multi-family)

# Testing Emergency Equipment

- ▣ Sound Limits 5 dBA less stringent



# Stationary Sources

## ▣ Clarifications:

- Includes regular, on-site truck movements (inconsistent with air quality approach): *current guidelines exclude conveyances*
- More specific re exemptions for ECA (O.Reg 524/89. Sources still subject to NPC-300 sound limits.
- NPC-300 does not apply to normal farm practice (*Farming and Food Production Protection Act, 1998*).

# Points of Reception

- ▣ Various clarifications for approved use not yet designed or built, vacant lots, location at hi-rise, etc.
- ▣ Same concepts in all cases.

# Predictable Worst Case

- ▣ Clarify infrequent:
  - Include if 2x/month for hour (even if at different times).



# Indoor Sound Levels Road & Rail

Space	Time	Road Leq (dBA)	Rail Leq (dBA)
Living/Dining; dens; hospitals; nursing homes; daycares; etc.	07:00-23:00	45	40
	23:00-07:00		
Sleeping Quarters	07:00-23:00	45	40
	23:00-07:00	40	35



# Noise Assessment Criteria in Land Use Planning

## Publication LU-131

October 1997

### PURPOSE

This guideline outlines the position of the Ministry of the Environment (MOE) on noise criteria for planning of sensitive land uses, in support of the Provincial Policy Statement under the *Planning Act* and in accordance with the Ministry of the Environment Guideline D-1 "Land Use Compatibility". It is intended for use in planning of noise sensitive land uses adjacent to facilities such as but not limited to airports, road and rail transportation corridors, industrial facilities, aggregate facilities, major commercial facilities, sewage treatment facilities, and waste sites.

# Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)

## Publication NPC-205

October 1995

### SCOPE

This Publication establishes **sound level limits** for stationary sources such as **industrial** and commercial establishments or ancillary transportation facilities, affecting points of reception in Class 1 and 2 Areas (Urban). The limits apply to **noise complaint investigations** carried out in order to determine potential violation of Section 14 of the Environmental Protection Act. The limits also apply to the **assessment of planned stationary sources** of sound in compliance with Section 9 of the Environmental Protection Act, and under the provisions of the Aggregate Resources Act and the Environmental Assessment Act.