

# Noise Impact Assessment Form



Licensee: \_\_\_\_\_

Facility name: \_\_\_\_\_ Type: \_\_\_\_\_

Legal location: \_\_\_\_\_

Contact: \_\_\_\_\_ Telephone: \_\_\_\_\_

## 1. Permissible Sound Level (PSL) Determination (Directive 038, Section 2.1)

(Note that the PSL for a pre-1988 facility undergoing modifications may be the sound pressure level (SPL) that currently exists at the dwelling if no complaint exists and the current SPL exceeds the calculated PSL from section 2.1.)

Complete the following for the nearest or most impacted dwellings or receptors:

Distance from facility	Direction from facility	BSL (dBA)	Daytime adjustment (dBA)	Class A adjustment (dBA)	Class B adjustment (dBA)	Nighttime PSL (dBA)	Daytime PSL (dBA)

## 2. Sound Source Identification

For the new and existing equipment, identify major sources of noise from the facility, their associated sound power level (PWL) or sound pressure level (SPL), the distance (far or free field) at which it was calculated or measured, and whether the sound data are from vendors, field measurement, theoretical estimates, etc.

	Predicted	OR	Measured	Data source	Distance calculated or measured (m)
	<input type="checkbox"/> PWL (dBA)		<input type="checkbox"/> PWL (dBA)		
<u>New equipment</u>	<input type="checkbox"/> SPL (dBA)		<input type="checkbox"/> SPL (dBA)		
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____

	Predicted	OR	Measured	Data source	Distance calculated or measured (m)
	<input type="checkbox"/> PWL (dBA)		<input type="checkbox"/> PWL (dBA)		
<u>Existing equipment/facility</u>	<input type="checkbox"/> SPL (dBA)		<input type="checkbox"/> SPL (dBA)		
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____

## 3. Operating Conditions

When using manufacturer's data for expected performance, it may be necessary to modify the data to account for actual operating conditions (for example, indicate conditions such as operating with window/doors open or closed). Describe any considerations and assumptions used in conducting engineering estimates:

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\_\_\_\_\_

\_\_\_\_\_

**4. Modelling Parameters**

If modelling was conducted, identify the parameters used (see section 3.5.1):

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**5. Predicted Sound Level / Compliance Determination**

Identify the predicted *overall* (cumulative) sound level at the nearest or most affected dwelling or receptor. Typically, only the nighttime sound level is necessary, as levels do not often change from daytime to nighttime. However, if there are differences between day and night operations, both levels must be calculated.

Predicted sound level at the nearest or most impacted dwelling or receptor from the new facility (including any existing facilities):

\_\_\_\_\_ dBA (night)                      Permissible sound level: \_\_\_\_\_ dBA (night)

If applicable: \_\_\_\_\_ dBA (day)                      Permissible sound level: \_\_\_\_\_ dBA (day)

Is the predicted sound level less than the permissible sound level? Yes \_\_\_\_\_ No \_\_\_\_\_

If **YES**, go to number 7.

**6. Compliance Determination / Attenuation Measures**

(a) If 5 is **NO**, identify the noise attenuation measures the licensee is committing to:

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Predicted sound level at the nearest or most impacted dwelling or receptor from the facility (**with** noise attenuation measures):

\_\_\_\_\_ dBA (night); if applicable: \_\_\_\_\_ dBA (day)

Is the predicted sound level less than the permissible sound level? Yes \_\_\_\_\_ No \_\_\_\_\_

If **YES**, go to number 7.

(b) If 6(a) is **NO** or the licensee is not committing to any noise attenuation measures, the facility is not in compliance. If further attenuation measures are not practical, provide the reasons why the measures proposed to reduce the impacts are not practical.

**Note: If 6(b) is NO, the Noise Impact Assessment form must be included with the application filed as nonroutine.**

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**7. Explain what measures have been taken to address construction noise.**

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**8. Analyst's Name:** \_\_\_\_\_

Company: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone: \_\_\_\_\_ Date: \_\_\_\_\_