Appendix 4 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 dwelling(s):

<table>
<thead>
<tr>
<th>Distance from facility</th>
<th>Direction from facility</th>
<th>BSL (dBA)</th>
<th>Daytime adjustment (dBA)</th>
<th>Class A adjustment (dBA)</th>
<th>Class B adjustment (dBA)</th>
<th>Nighttime PSL (dBA)</th>
<th>Daytime PSL (dBA)</th>
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</table>

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.

<table>
<thead>
<tr>
<th>New Equipment</th>
<th>Predicted OR Measured</th>
<th>Data source</th>
<th>Distance calculated or measured (m)</th>
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</thead>
<tbody>
<tr>
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<td>PWL (dBA)</td>
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<td>SPL (dBA)</td>
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<tr>
<td>Existing Equipment/Facility</td>
<td>Predicted OR Measured</td>
<td>Data source</td>
<td>Distance calculated or measured (m)</td>
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<td>PWL (dBA)</td>
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<td>SPL (dBA)</td>
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</tbody>
</table>

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:

___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
(continued)
4. **Modelling Parameters**
If modelling was conducted, identify the parameters used (see Section 3.5.1):

___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________

5. **Predicted Sound Level/Compliance Determination**
Identify the predicted overall (cumulative) sound level at the nearest of most impacted dwelling. 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 to the nearest or most impacted dwelling from 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:

___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________

Predicted sound level to the nearest or most impacted dwelling 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 must be included with the application filed as nonroutine.

___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________

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

___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________
___________________________________________________________________________________________________________

8. **Analyst’s Name:**
Company:________________________________________________________
Title:____________________________________________________________
Telephone:_______________________________________________________
Date:____________________________________________________________

Alberta Energy and Utilities Board 640 – 5 Avenue SW, Calgary Alberta T2P 3G4