

Electronic Notification

February 15, 2011

To: Rule 012 Participants

Addendum to AUC Rule 012 – Noise Control Version 3 draft

The attached addendum to AUC Rule 012 – *Noise Control* Version 3 draft, dated January 26, 2011, has been prepared for participant review and comment.

The revisions include:

1. a revised section 3.2 – Noise impact assessment requirements
2. a revised section 3.9 – Records
3. a revised Appendix 3 – Noise Impact Assessment Summary Form

This letter and addendum are posted on the AUC website (www.auc.ab.ca) under Rule Development > Rule 012 – *Noise Control*. Parties interested in commenting on these changes are invited to do so by March 1, 2011. All correspondence should be addressed to Ms. Kellie Benoche at: kellie.benoche@auc.ab.ca.

Sincerely,

(sent by email)

Don Popowich
Director
Facilities Division

Attachments

3.2 Noise impact assessment requirements

- (1) A noise impact assessment is required for a new facility or modifications to an existing facility where the proposed facility or modification will be emitting sound once constructed.
- (2) Applications for small power plants of 1 MW or less and for transmission facilities at 240/260 kV or less (including transmission lines and substations) that meet the application criteria outlined in Rule 007, a Noise Impact Assessment Summary Form (Appendix 3) can be submitted to satisfy the requirements of an NIA. All other facility applications must submit a detailed NIA with the application.
- (3) Where a noise impact assessment is not submitted, an applicant must justify why noise levels are not affected by the proposed facility or proposed modifications to a facility in the application.

An applicant must complete a noise impact assessment before filing an application for a new facility or modification to an existing facility, and submit the noise impact assessment with the application.

If the noise impact assessment indicates noncompliance with the PSL, the applicant must:

- provide for additional attenuation measures, or
- submit reasons why the measures proposed to reduce the impacts are not practical.

3.9 Records

A licensee must keep all supporting information relating to a noise impact assessment on file and be made available in the event that the Commission requests the information, and for reference if a noise complaint is filed.

Appendix 3 - Noise Impact Assessment Summary Form



Licensee: _____

Facility name: _____ Type: _____

Legal location: _____

Contact: _____ Telephone: _____

1. Permissible Sound Level (PSL) determination (Rule 012, Section 2)

(Note that the PSL for a pre-1988 facility undergoing modifications is the equivalent noise level (L_{eq}) that currently exists at the dwelling if no prior noise complaint exists and the current sound level L_{eq} exceeds the calculated PSL from Section 2.1.)

Complete the following for the nearest or most impacted dwelling(s) or at a distance of 1.5 km where there are no dwellings:

Dwelling Distance from facility (m)	Dwelling 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).

New and/or Existing Equipment Noise Sources (include make and model, power rating)	Predicted or Measured		Data source (Vendor Measurement theoretical, etc.)	Distance SPL measured from the noise source (m)
	<input type="checkbox"/> PWL (dBA) or <input type="checkbox"/> SPL (dBA)	<input type="checkbox"/> PWL (dBA) or <input type="checkbox"/> SPL (dBA)		

Provide a tentative schedule and timing for the operation, maintenance and testing of the equipment

3. Normal 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, load, RPM). Describe any considerations and assumptions used in conducting estimates:

4. Modeling parameters

If modeling was conducted, identify the parameters used (see section 3.5 (1)):

(continued)

5. Predicted sound level/compliance determination

Identify the predicted sound level at the nearest or most impacted dwelling or at a distance of 1.5 km where there are no dwellings. 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 contribution from the new or modified facility alone at the nearest or most impacted dwelling or at a distance of 1.5 km where there are no dwellings.

Nighttime sound level: _____ dBA Daytime sound level: _____ dBA

Predicted sound level at the nearest or most impacted dwelling or at a distance of 1.5 km where there are no dwellings, from the new or modified facility including the cumulative effects of noise from energy-related facilities and the prescribed ambient level (ASL + new facility + existing energy-related facilities).

Nighttime sound level: _____ dBA Nighttime Permissible sound level: _____ dBA

Daytime sound level: _____ dBA (If applicable) Daytime Permissible sound level: _____ dBA

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 the PSL is exceeded, provide the noise control measures that the licensee will install or implement to ensure compliance with the PSL, as if the equipment were to operate continuously.

(b) If the licensee is not committing to any noise attenuation measures in 6 (a), and the facility is not in compliance, and further attenuation measures are not practical, provide the reasons why additional noise control measures are not being implemented.

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

8. Supply any other relevant information you want to provide to the AUC. Submit additional pages if required.

9. Acoustical practitioner's information (See Section 3.8 (9)):

Company: _____

Title: _____

Telephone: _____ Date: _____