

From: [Steven Bilawchuk](#)
To: [Joan Yu](#)
Cc: patrickf@aciacoustical.com
Subject: FW: AUC Bulletin 2023-01 - Stage 2 of round 2 consultation for potential changes to AUC Rule 012: Noise Control
Date: Friday, May 5, 2023 9:14:11 AM

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Joan,

We (ACI Acoustical Consultants Inc.) have reviewed the Rule 012 Comment Matrix and have the following comments:

- We support the concept of the additional Basic Sound Level columns with higher population densities in urban areas, however, we are concerned with the logistics of trying to determine the population density once it gets in the range of 200 – 300 dwellings per quarter section of land. This starts getting into areas with multi-family dwellings (condos, apartments) and it will be difficult to determine the number of units within each building. Typically this assessment of population density is done using aerial imagery (i.e. Google Earth) and counting the dwellings. With multi-family dwellings, this becomes difficult and less accurate.
- Once the population density gets beyond 160 dwellings per quarter section, then Category 1 (>500 m from heavily traveled road) is essentially irrelevant. At these population densities, there must be roads that are “heavily travelled” well within 500 m of the residents. Perhaps within Category 1, the first 2 columns can remain (40 dBA and 43 dBA), but the final 3 columns should perhaps not even be available (i.e. 46, 48, 53 dBA) and the user should be forced to use either Category 2 or 3 within these population densities.
- We agree that Tonality at **ALL** frequencies (not just low F noise) should be assessed in all CSL surveys, however, this level of assessment should be limited to CSL surveys and not at the design/modeling stage because that detailed level of 1/3 octave band frequency content likely won't be available.
- We think the dBC minus dBA element should be eliminated. There are situations where dBC minus dBA is less than 20 but a clear low F tonal component still exists and can be subjectively annoying. However, according to the current criteria, if the dBC minus dBA is less than 20, then the low F tonal penalty cannot be applied. It should be based solely on the 1/3 octave band frequency content obtained during a CSL survey.
- We don't have any comments on the issues of Development Milestones for new projects vs. new residents. We suggest that the AUC should indeed determine a timeline but we don't have any opinions regarding what that timeline should be.

Regards,
STEVE



"Acoustics People Make Sound Decisions"

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APEGA Permit to Practice # P7735

From: Crystal Carstens <Crystal.Carstens@auc.ab.ca>

Sent: Tuesday, April 25, 2023 10:26 AM

To: Undisclosed recipients:

Subject: AUC Bulletin 2023-01 - Stage 2 of round 2 consultation for potential changes to AUC Rule 012: Noise Control

Good morning,

The Alberta Utilities Commission has issued Bulletin 2023-01: *Stage 2 of round 2 consultation for potential changes to AUC Rule 012: Noise Control*. Please see the attached bulletin.

Any feedback should be sent to Joan Yu at joan.yu@auc.ab.ca **by May 15, 2023**.

Thank you,

Crystal Carstens

Administrative Assistant

www.auc.ab.ca



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