

Wake Robin Inn--Response to CSA comment 2025-09-04

From Gregory C. Tocci <gtocci@cavtocchi.com>

Date Fri 9/5/2025 5:00 PM

To Land Use <landuse@salisburyct.us>; Miles Todaro <mtodaro@salisburyct.us>; Abby Conroy <aconroy@salisburyct.us>

Cc Liam E. Maloney <LMaloney@cavtocchi.com>; Steven Cohen <scohen087@gmail.com>; Jonathan Marrale <jonathanmarrale@gmail.com>; Herb Singleton <hsingleton@csacoustics.com>

 1 attachment (233 KB)

25007 WRI CAS C-wt 1c.pdf;

Commissioners of the Board,

Please accept the attached response to a comment in a Cross-Spectrum Acoustics letter dated 2025.09.04 regarding the use of dBC for evaluating music sound at Wake Robin Inn. I would be pleased to answer any questions you might have. Thank you.

Greg.

Gregory C. Tocci

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MEMORANDUM

DATE: September 5, 2025
FROM: Greg Tocci, 508-395-3945, gtocci@cavtocci.com
TO: Abby Conroy, aconroy@salisburyct.us
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CC: Steven Cohen, Aradev, scohen087@gmail.com
 Jonathan Marrale, Aradev, jonathanmarrale@gmail.com
SUBJECT: Application #2025-0287 - Wake Robin Inn
 Response to Cross Spectrum Acoustics Letter 9/4/25

Commissioner Cockerline recently asked whether “...dBC [is] something we need to consider. How and when is it applied?” September 4, 2025, CSA responded in part that “The complicating factor is determining appropriate sound level limits that can be applied to the assessment.” We agree that there are no widely accepted guidelines for the use of C-weighted sound level to evaluate low frequency sound in the environment.

In the absence of a common practice for using C-weighted sound level to evaluate low frequency sound in the environment, we have adapted the method for establishing the A-weighted design goal, which led to a design goal of 32 dBA, to a corresponding C-weighted design goal. The A-weighted design goal is defined as the “average of the lowest measured A-weight 90th percentile hourly sound levels during operating periods plus 5 dB.” We have defined the corresponding C-weighted design goal as the “C-weight of the average octave band spectrum used for the A-weight design goal plus 5 dB.”

Design Goal for Music	45 dBC
R1	21 dBC
R2	27 dBC
R3	35 dBC
R4	41 dBC
R5	44 dBC
R6	35 dBC
R7	35 dBC
R8	35 dBC
R9	29 dBC

**Table 1. C-weighted Event Room music sound levels at receptor property line study locations compared to the C-weighted low frequency design goal for music of 45 dBC
Wake Robin Inn, Salisbury, CT**

This analysis has involved computing the corresponding C-weight sound level at SM3 for the hours that the existing ambient LAF_{90,1-hr} was 27 dBA. LAF_{90,1-hr} of 27 dBA occurred four times over the 165 hours of monitoring. For these one-hour samples, the C-weight sound level varied between 39 and 42 dBC, averaging 40 dBC. Hence, the C-weight design goal, corresponding to the 27 dBA A-weight design goal for music, is 45 dBC. Table 1 compares Event Room transmitted music C-weight sound levels at R1-R9 with the 45 dBC design goal. The highest C-weighted music sound level of 44 dBC occurs at R5 and is under the 45 dBC design goal. While a dBC standard is much less prevalent in municipal ordinances, adapting the A-weight method to establish a C-weight design goal for

music in the environment is reasonable though perhaps a bit stringent. We also note that Mr. Singleton state in his September 4, 2025 letter “...in my professional opinion, the activities as analyzed by CTA will meet relevant acoustical limits.”

We hope that this has addressed all the Commission’s and community concerns. Please let me know if I can provide any further information. Thank you.

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