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ERB, CHRIS
SUPERB CONSTRUCTION
2345 - A DELINEA PL
NANIAMO BC V9T 5L9

Dear Mr. Erb,

As part of our on-going review of your application to amend the Official Community Plan (OCP Bylaw No. 3450) and Zoning Bylaw (Bylaw No. 2950) in relation to the existing and proposed expanded facilities at the Vancouver Island Motorsport Circuit (VIMC), the Municipality has determined that it will engage a third-party acoustics consultant at our expense to provide a peer review of the report(s) provided by BeSB GMBH Berlin.

Staff have performed an initial review and determined that a third-party review would best suit the needs of the Municipality in order to have an overall assessment of the report(s), and to seek independent clarification on numerous technical aspects of the report(s) given the highly technical nature of acoustics.

Accordingly, we have engaged Navcon Engineering Network, based out of Fullerton, CA, USA to act on our behalf. In order for Navcon to complete their review they have requested the following information:

1. The "raw" noise measurement data collected at the trackside location (MP) and all 3 residential locations (MP1, MP2 & MP3) by BeSB GMBH during the noise surveys conducted on Aug. 1-2, 2017. The raw data files should include the 1 second LAeq time histories and the 1 second 1/1 and/or 1/3 octave band spectral data.
2. Data files annotated with notes describing the times when the 1 second noise levels were dominated by vehicles on the track and when the noise level was dominated by other extraneous noise sources. The raw data files should be presented in either an Excel or ASCII file format.

3. The "reduced" noise data from the noise surveys conducted on Aug. 1-2, 2017 including any statistical noise metrics.
4. Any sound recordings BeSB GMBH made during the Aug. 1-2, 2017 noise surveys. The noise analyzers used by BeSB GMBH have this capability and it is standard engineering practice to make sound recordings during noise studies such as this. The recording should be provided in a format which can be played in Windows Media Player, Quicktime player, OGG player, etc.
5. The on-site pre and post calibration files for both Norsonic 140 noise meters used by BeSB GMBH.
6. Documentation showing the two Norsonic 140 noise meter settings (e.g., time weighting, 1/1 or 1/3 octave filter, Ln, Leq, Lmin, Lmax, etc.)
7. Confirmation as to whether the two Norsonic 140 noise meter were time synchronized.
8. All weather data collected by BeSB GMBH during the Aug. 1-2, 2017 measurement surveys (e.g., air temperature, humidity, wind speed, wind direction, etc.)
9. Whether BeSB GMBH considers the environmental conditions during the the Aug. 1-2, 2017 measurement surveys to represent a lapse or neutral propagation condition.
10. The CadnaA noise model for the three VMIC operational conditions. The noise model should be "complete" including the ground elevations, ground absorption areas and parameters, mitigation areas and parameters, building structures and parameters, vehicle source levels and spectra, calculation settings, etc. We will rerun the model and verify the calculations. The model should be provided in either a QSI or DIN 45687 format. The three VMIC operational conditions are listed below and described in Section 5 of the BeSB GMBH report.
 - o CadnaA VIMC Noise Model – Driving Experience Program and Circuit taxi experience
 - o CadnaA VIMC Noise Model – Member Track Day
 - o CadnaA VIMC Noise Model – Busy Member Track Day
11. The detailed information on the vehicle source emission data (i.e., noise levels and frequency spectra) used in the noise model and mentioned in Section 4.2 of the BeSB GMBH report. The report states, *"The input data used in the computer model is based upon sound emission data of all types of sports and racing vehicles by us at major test and racing circuits in Germany and elsewhere in Europe."* The speed calculation map shown in the report Appendix is based upon the Porsche GT3 RS. Provide vehicle noise emission levels and frequency spectra specifically for the Porsche 991.1 GT3 and Porsche 991.1 GT3 RS.

We would request that you authorize BeSB GMBH to provide this information/data, either to the Municipality or to Navcon directly, at your earliest convenience, which will allow for continued review and assessment of your application. Following receipt of the second report, we anticipate that we will likely request that Navcon also review that report, and may request further information from BeSB GMBH (through you) at that time.

If you have any questions or concerns, please do not hesitate to contact me directly at 250.746.3120 or scott.mack@northcowichan.ca

Sincerely,



Scott Mack, M.Arch, B.Sc.(Plan), MCIP, RPP
Director of Development Services | Approving Officer

ec: Ted Swabey, Chief Administrative Officer
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Kyle Young, Assistant Manager of Planning and Subdivision
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