



Beyond, Every Day.

**Mail: PO Box 23750, Airport Postal Outlet
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MINUTES OF REGULAR MEETING

Aeronautical Noise Management Committee (ANMC)
Thursday 28 March 2018 - 1:30PM Vancouver International Airport, Link Boardroom 1

Those in attendance were:

Chairperson:	Marion Town	Director Environment, YVRAA
Secretariat:	Rachel Min	Environmental Analyst, YVRAA
Admin Support:	Cathy Pham	Administrative Assistant, YVRAA
Participants:	Gary Abrams	City of Richmond (citizen representative)
	Ihsan Malik	City of Richmond (citizen representative)
	Ron Sorensen	City of Surrey (citizen representative)
	Jonathan Parker	City of Vancouver (citizen representative)
	Meg Brown	City of Vancouver (citizen representative)
	Paula Kolisnek	City of Delta (staff)
	Victor Wei	City of Richmond (staff)
	Helen Popple	City of Vancouver (staff)
	Patricia Moreland	Airline Operators Committee (AOC)
	Damian McKeivitt	Canadian Business Aviation Association (CBAA)
	Don McLeay	National Airlines Council of Canada (NACC)
	Greg Dansereau	NAV CANADA – Vancouver Area Control Centre
	Brent Bell	NAV CANADA – Vancouver Tower
	Geert Bos	Director Airside Operations, YVRAA
	Mark Cheng	Supervisor Noise Abatement & Air Quality, YVRAA
Guests:	Karl McGrath	AIRBIZ
	Ken Conway	AIRBIZ – via telephone
	Martin Lepron	AIRBIZ – via telephone
	Mary Point	Manager Indigenous Relations, YVRAA

Next ANMC Meeting: 14 June 2018	
Rachel Min	26 April 2018
Secretariat Signature	Date

1.0 INTRODUCTIONS AND ADOPTION OF AGENDA

Marion Town welcomed members and guests and reviewed the meeting agenda.

Marion advised that the minutes of ANMC meeting on 7 December 2017 was finalized and posted on the YVR website (www.yvr.ca).

2.0 UPDATE – NOISE MANAGEMENT PLAN 2019-2023

Mark Cheng discussed the various ongoing work streams to support the creation of new 2019-2023 YVR Noise Management Plan (NMP). As background, the current NMP ends this year, and the Airport Authority is undertaking process to create a new NMP. A draft of the new NMP will be submitted to Transport Canada at the end of the year, and final deliveries of the ongoing work streams are meant to support this timeline. Additional information on the process to create the new NMP can be found in the meeting minutes from 7 December 2017.

The current work streams include the following:

- 1) Noise Management Practice Review
- 2) Community web Questionnaire
- 3) Noise Concern Analysis 2014-2017

Results from this work will be used to inform ANMC members about community issues and to help generate ideas and suggestions for possible initiatives. Progress updates on each of the work streams were provided.

Noise Management Practice Review

Mark advised that AIRBIZ was selected to complete a review of noise management practices at other international airports, and to provide an overview of the 5-year fleet plans of main airlines operating at YVR.

The objective of the review was to document noise management practices at selected airports to provide a high level understanding on what other airports are doing. A total of eleven airports were selected for review as part of this work, which included two domestic airports (Montreal and Toronto). As noise management practices are often unique to each airport given the different local conditions that exist, AIRBIZ was asked to keep their review of practices factual and not provide a subjective assessment of effectiveness.

Mark introduced Karl McGrath, Ken Conway, and Martin Lepron from AIRBIZ to present interim findings of the review.

Karl, Ken, and Martin provided a summary of their findings from a review of Toronto Pearson Airport's recent noise study and shared examples of noise management practices at Sydney, Amsterdam, London, Helsinki, and Zurich. A high level overview of the fleet plans for various airlines serving YVR was also provided. For the ANMC members, further details of the AIRBIZ presentation can be found in the slide deck distributed following the meeting.

It was reinforced during the presentation, that a particular practice at one airport may not be applicable at other airports due to differences in operations, geography, market conditions, fleet mix, etc. As such, it would be up to the Airport Authority to assess and determine if proposed ideas and initiatives would work within the context of the YVR operating environment.

The results of the AIRBIZ review would be made available to the ANMC through a summary report. Delivery of this report is expected in May 2018.

Community Web Questionnaire

Mark provided updates on the community web questionnaire. The objectives of this questionnaire are to seek community input issues related to noise, solicit feedback on elements of the YVR noise management program, and canvass for ideas to address concerns. The questionnaire was launched on 13 March 2018 and it was promoted through the YVR website and various social medial channels. The questionnaire would be open and available until mid-July.

Noise Concern Analysis 2014-2017

Rachel Min provided a summary of the analysis of historical noise concern received between the years 2014-2017. This analysis is meant to help both the citizen and staff representatives on the ANMC understand concerns and issues in their communities.

During the four-year analysis period, a total of 6,458 concerns were registered by 903 residents in the Lower Mainland. The most cited operation types and issues of concern in each community are often dependent on their proximity to the airport and their location in relation to the runway orientations and flight paths.

Following all the updates, Mark provided a summary of immediate next steps, which included:

- Delivery of interim report of community questionnaire (May 2018)
- Delivery of AIRBIZ report (May 2018)
- Special questionnaire for ANMC members to solicit input on potential initiatives (May/June 2018)
- Initiative development (July 2018)

To develop initiatives for the new NMP, all inputs received from community and ANMC members will be assessed and evaluated against the criteria provided below:

- Impact on safety
- Impact on airport or aircraft operations
- Effects on emissions or GHG
- Economic cost to industry
- Noise impact on other communities or areas
- Impact on current and future airport capacity
- Alignment with YVR's mandate to provide 24-hour air service for the region

3.0 AIRCRAFT NOISE ANALYSIS

Mark presented the results of an analysis to compare the measured take-off noise levels between modern aircraft and the older aircraft designs. This analysis was meant to supplement material on the emissions benefits associated with newer aircraft designs presented by the Don McLeay (National Airlines Council of Canada) at the ANMC meeting on 15 October 2014.

The focus of the analysis was comparing the measured noise levels of the B787-900 against the B767-300ER, and the B737MAX against B737-800 and the A320. Departure noise levels captured at one of the airport's noise monitoring terminal (NMT#2), located close to the threshold and to the side of the extended centerline of Runway 08R was used in the comparison. Take-offs flying a common flight distance was used in the analysis to ensure operating weights of the aircraft were similar.

Based on the analysis, the average sound exposure levels (SEL) of the newer B787-900 and B737 MAX aircraft as measured at NMT#2 were at least 3 dBA lower compared to the older aircraft. This is significant considering that the newer generation aircraft have a higher maximum take-off weight and can carry more passengers than the older comparable aircraft.

4.0 2017 YEAR END REVIEW

Rachel provided a summary of 2017 year end stats for aircraft movement, passengers, and noise concerns.

In 2017, YVR accommodated about 330,000 aircraft movement (this includes floatplanes and helicopters), and welcomed a record number 24.2 million passengers. The number of passengers has been growing at a much faster rate than the aircraft movement, and the number of aircraft movements in 2017 remained below the peak year of 1998. This indicates each aircraft is carrying more passengers.

1,293 concerns were received from 253 individuals in 2017, which was a decrease compared to the previous year where 1,886 concerns were registered by 301 individuals. About 60% (n=776) of the concerns received in 2017 were registered by three individuals.

5.0 OTHER BUSINESS

ANNUAL PUBLIC MEETING

Marion advised the annual public meeting (APM) is scheduled for 10 May 2018. The 2017 YVR Annual Sustainability Report and the 2017 Annual Noise Report will be made available close to the APM date.

ANMC AIRPORT TOUR

The possibility of arranging an airport tour for ANMC members was discussed. YVR staff will look further into the logistics of providing a tour.

MEETING ADJOURNMENT

Marion thanked members for their attendance and contributions. The meeting was adjourned at 3:45 PM.