

February 2023

## INFORMATIONAL BRIEFING VANCOUVER AIRSPACE MODERNIZATION PROGRAM

**NAVCANADA.CA/VAMP** 

#### **ON TABLE**

City Council Meeting February 13, 2023 re: Item 4.1.a

Serving a world in motion navcanada.ca



#### **OVERVIEW**



Introductions

Background on NAV CANADA



Overview of Changes in Your Region



Information on Public Consultation



Questions



## INTRODUCTIONS AND BACKGROUND



### **OUR STORY**

- In 1996, NAV CANADA became the world's first fully privatized air navigation service
- Our vision: to be the world's most respected air navigation service in the eyes of the public, our customers and employees

## OUR STORY TOLD IN FACTS AND FIGURES

Private, non-share capital company

Managing one of the largest regions of airspace in the world



18 M

square kilometres of airspace managed by NAV CANADA



More than

100

staffed sites



More than

4,000

employees across the country



45,000

customers

# A CULTURE OF SAFETY

#### Safety is why we exist

- Our commitment to safety is shared at every level
- We are industry leaders in establishing a company-wide Safety Management System
- As a result, our safety record is regarded as one of the best in the world

# HELPING THE INDUSTRY REDUCE ITS ENVIRONMENTAL IMPACT

- Improving air traffic management
  - Modernizing Canada's airspace
  - Implementing new technologies
- The aviation industry recognizes aircraft and airport operations have impacts and we are committed to continuous improvement and work towards minimizing and mitigating environmental impacts noise and emissions where possible.



## OVERVIEW OF CHANGES IN YOUR REGION

#### WHAT IS RNP AND RNP AR?

- Required Navigation Performance (RNP) is a form of aircraft navigation.
- RNP uses an aircraft's flight management system and satellite positioning to fly a precise three-dimensional path in the sky.
- RNP makes it easier to design safe efficient, predictable routes.
- Required Navigation Performance
   Authorization Required (RNP AR) is a special type of RNP approach



#### **Continuous Descent Operations**



# FUEL AND EMISSIONS SAVINGS

RNP AR procedures provide "short turn" approaches featuring constant descent and reduced track miles.

As of November 2022, RNP AR approaches were available at 32 Canadian airports. WHEN COMPARED TO CONVENTIONAL APPROACHES, THE USE OF RNP AR LED TO THE FOLLOWING BENEFITS:

**FISCAL YEAR 2020** 



313,690+
TRACK MILES SAVED



1.6+

MILLION LITRES

FUEL BURN AVOIDED



4.2+

MILLION KG

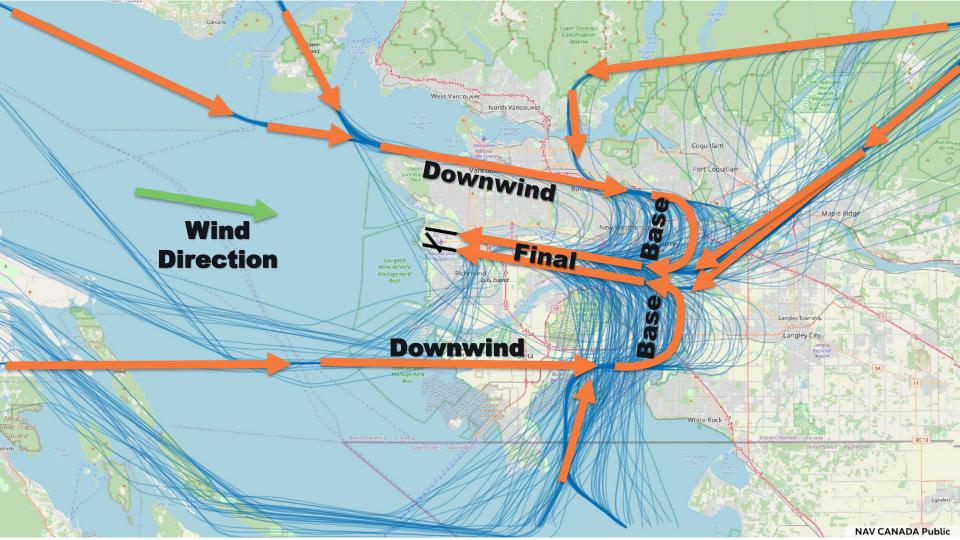
GHG EMISSIONS REDUCED

#### WHY IS THIS CHANGE BEING INITIATED?

- > The industry is committed to continuous improvement and working toward minimizing and mitigating environmental impacts noise and emissions where possible.
- The overarching goal is to design and implement airspace and procedures that will result in a structure that meets current and future demand while seeking to reduce environmental impacts such as noise and GHG emissions
  - Sustain safety
  - Modernize the airspace system
  - Prepare for growth
  - Balance the needs of stakeholder groups
  - Manage the impact to the environment
  - Consideration to long term plans of the industry

#### WHAT'S NOT CHANGING

- No changes to departure routes
- > No changes to noise abatement procedures
- No changes to routes for smaller aircraft like floatplanes and helicopters



#### **HISTORICAL TRACKS WITH PROPOSED CHANGES**

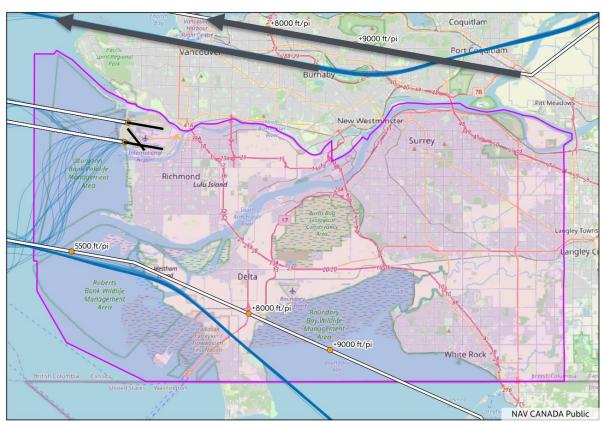


Axe de la trajectoire d'approche nouvelles

Historical Tracks / Routes historiques

For additional information, visit www.navcanada.ca/VAMP pour information supplémentaire

Updated November 2022 Mis à jour en novembre 2022

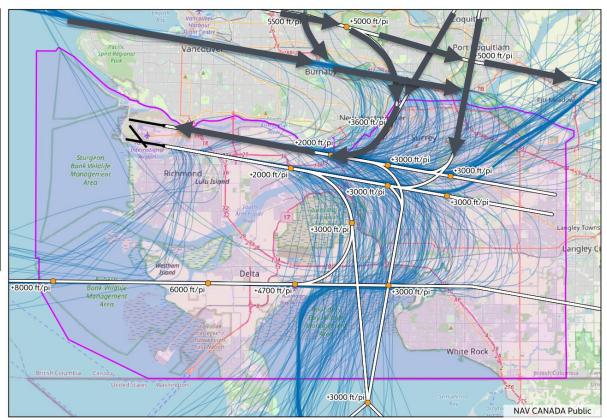


#### **HISTORICAL TRACKS WITH PROPOSED CHANGES**



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#### **NOISE FOOTPRINT OF NEW APPROACHES**

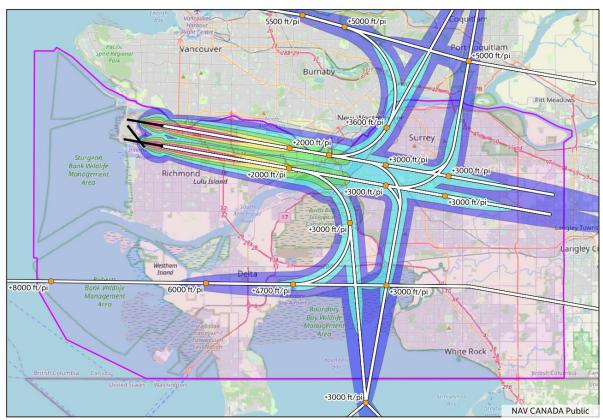


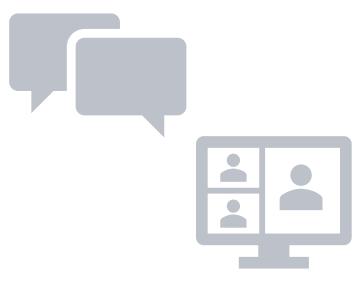
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60 dB(A) 65 dB(A)

70 dB(A) 75 dB(A)



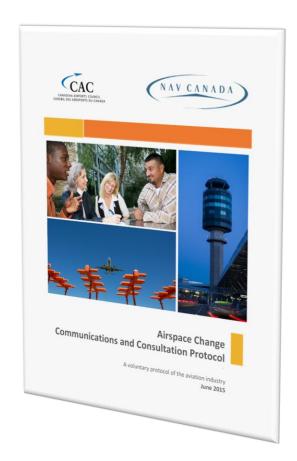


## INFORMATION ON PUBLIC CONSULTATION

#### **CONSULTATION GOALS**

Accurately communicate
 information about expected
 changes and benefits to
 communities, as per the Airspace
 Change Communications and
 Consultation Protocol.

 Ensure that residents and businesses have the opportunity to learn about the proposed changes and provide their input.



#### **CONSULTATION MILESTONES**

Pre-Consultation Official Consultation Period

Post-Consultation **Implementation** 

Subject to consultation

Nov 22 - Dec 5

- Offer of briefing to elected officials
- Other pre-consultation briefings

Dec 6 - Feb 3

- In-person open house style consultation events
- Virtual info sessions
- Online Information
   Package, including
   noise modeling
- > Promotion
- Feedback Survey

#### Spring 2023

Consultation report preparation

## No earlier than Fall/Winter 2023

 180-day postimplementation
 Community Impact
 Assessment later in implementation period
 (Summer 2024)

#### POST-CONSULTATION AND IMPLEMENTATION

- A post-consultation report detailing information and feedback obtained during the consultation period will be prepared by NAV CANADA
- > Any implementation activity will be subject to the outcome of consultations
- An assessment of the change will be made by NAV CANADA and YVR following 180 days from implementation of RNP AR arrival routes.
- The consultation report and 180-day review will be shared on NAV CANADA's website.



**QUESTIONS** 

