

Noise Management Action Plan

2022 Year-End Update

Prior to COVID-19, Toronto Pearson was the sixth most connected airport in the world, facilitating 50.5 million passengers and over 450,000 aircraft movements in 2019, directly employing 49,000 people and enabling \$42 billion of Ontario's GDP. In April 2020, Toronto Pearson began experiencing the impacts of COVID-19 with a significant drop in air traffic. Traffic had dropped by 61% in 2020 compared to 2019. Like other airports around the world, Toronto Pearson experienced a material decline in passenger and flight activity due to the travel restrictions from the global pandemic.

In 2022, passenger activity began increasing due to the easing of pandemic-related traffic restrictions and pent-up travel demand. Traffic peaked during the summer, and by the end of this year, Toronto Pearson saw about 75% of 2019 traffic.

We understand that airport operations have an impact on the surrounding communities, and we work closely with our industry partners to make sure that noise management remains a central part of the conversation as the airport recovers from the impacts of COVID-19.

[Toronto Pearson's Noise Management Program](#) works to strike a balance in operating a growing airport and regional economic engine with the impact on surrounding communities.

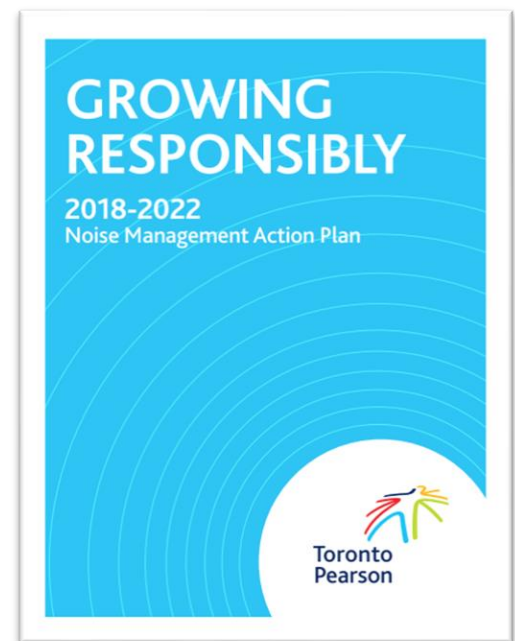
The Program is based on the International Civil Aviation Organization's (ICAO) Balanced Approach to Aircraft Noise Management, which includes four principles:

1. Reduction of noise at source
2. Land use planning and management
3. Noise abatement procedures
4. Operating restrictions

In 2018, Toronto Pearson released an [ambitious five-year plan](#), titled, **Growing Responsibly: 2018-2022 Noise Management Action Plan**, which includes a series of programs and policies designed to enhance the airport's existing Noise Management Program.

This Noise Management Action Plan Update shares the progress on the initiatives that are currently underway.

Learn more about how the plan was created, and read the Growing Responsibly: 2018-2022 Noise Management Action Plan on our website at torontopearson.com/NMAP



To learn more about the Noise Management Program or the Noise Management Action Plan, contact the Noise Management Office at 416-247-7682 or visit torontopearson.com/noisemanagement

To stay up to date on upcoming meetings, events and noise initiatives, sign up for the Checking In Newsletter at torontopearson.com/checkingin

Communications, Outreach and Noise Committees

Noise Management Forums

Background

A strong relationship with our surrounding community is vital to ensure that our Noise Management Program is adapting as the airport evolves.

We will provide residents with new avenues to share feedback so that we can have more meaningful dialogues and resolve future challenges together.

Launched in 2019, the Noise Management Forums offer a more inclusive approach to discussions with our neighbours, stakeholders, and partners.

Learn more about the Noise Management Forums on our website at torontopearson.com/en/community/noise-management/noise-forums.

Update

- Rollout of the Noise Management Forums, including the Community Proposal Review Process is now complete. To learn more about the Forums, including dates for upcoming meetings visit torontopearson.com/nmf.
- For materials from the Pearson Public Meetings visit [our website](#).

Quieter Fleet Incentive Program

Background

Many airports incentivize airlines to use the quietest aircraft in their fleets or expedite purchase of quieter aircraft. The GTAA committed to implementing a Quieter Fleet Incentive Program, starting with the A320 family retrofit program.

Phase 1: A320 Family Retrofit Compliance Program

The Airbus A320 family aircraft produce a high-pitch whining sound on approach caused by small vents on the aircraft's wings designed to help equalize and mitigate over-pressurization (Fuel tank Over Pressure equalization Ports – FOPP).

The A320 family includes the A318, A319, A320 and A321 aircraft. Retrofit kits can be installed to eliminate the high-pitch sound and reduce noise by up to 9dB, resulting in a significant noise reduction for communities.

Update

- The rollout of this program has been completed and based on the increase in usage of retrofitted aircraft at Toronto Pearson, our airline partners understand the importance of this initiative.
- In 2022, 83% of A320 family movements were by retrofitted aircraft compared to about 50% in 2019.
- Regularly monitoring the usage of the A320 family operations at Toronto Pearson Reports are available [here](#).

Phase 2:

The [International Civil Aviation Organization \(ICAO\) define noise standards known as Chapters](#), for aircraft manufacturers. Over the years, the standards have become increasingly more stringent.

Update

- Findings showed a significant percentual decrease in overall use of Chapter 3 aircraft in favour of the quieter Chapter 4 or higher (Chapter 3: 32% of operations in 2019, 29% in 2020 and 19% in 2021)

Next Steps

- Continue providing quarterly reports for Phase 1
- Continue to monitor and update Toronto Pearson fleet operations by certification ‘chapter’ to inform discussion on other aircraft to incentive to phase out as part of Phase 2.

Runway Usage

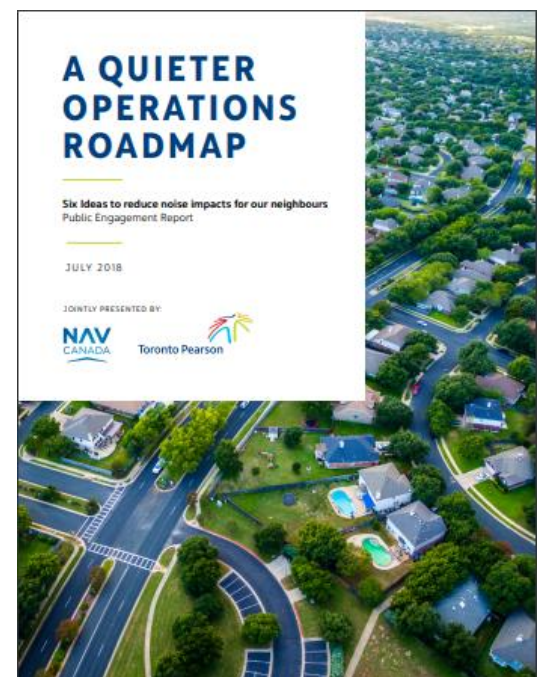
The Six Ideas – A Quieter Operations Roadmap

Background

The [Six Ideas: A Quieter Operations Roadmap](#) is a joint initiative between the GTAA and NAV CANADA to explore noise mitigation ideas that would reduce noise impacts for the surrounding communities.

Ideas 1 to 4 focused on how aircraft approach and depart Toronto Pearson and were led by NAV CANADA. Idea 5 and 6, led by the GTAA, explore the way the runways are used by aircraft arriving to and departing from Toronto Pearson.

Idea	Status
Idea 1: New Nighttime Approaches (12:30 – 6:30 am)	Implemented November 8, 2018
Idea 2: New Nighttime Departures (12:30 – 6:30 am)	Implemented November 8, 2018
Idea 3: Increase Downwind Speed	Implemented April 27, 2017
Idea 4: Increased use of Continuous Descent	Implemented February 28, 2019
Idea 5: Summer Weekend Runway Alternation Program	Tested Summer 2018 Tried Summer 2019 <i>Will not be pursued based on trial results and community feedback</i>
Idea 6: Review of the Preferential Runway System	Application submitted to Transport Canada for formalization of Trial as new Nighttime Preferential Runway System



Next Steps

- Continued [reporting](#) on preferential runway usage on a quarterly basis as part of the Trial for Idea 6
- Once approved by Transport Canada, publication of new Nighttime Preferential Runway System

Fly Quieter & Greener Program

Background

Establish a Fly Quiet Program that will publish an annual report comparing airline performance across several noise metrics. Once launched, this program will work with the Quieter Fleet Incentive Program to make Toronto Pearson quieter.

Update

- Developed proposed metrics based on a set of decision criteria that was created using learnings from other fly quiet programs on what factors led to effective metrics.
- Metric criteria:
 - Understandable: Metric must be well understood and accepted by the relevant stakeholders.
 - Measurable: Metric must be something that can be accurately measured to produce a performance score.
 - Influenceable: Metric must be within majority control of the airline.
 - Relevant: Metrics must bear relevance to local community concerns to have a worthwhile impact.

Next Steps

- This program is currently under development.

Night Flight Restriction Program

Background

Toronto Pearson's Night Flight Restriction Program includes a night flight budget that limits the number of arrivals and departures permitted between 0030 and 0629. We understand that both the currently defined night-time hours, and the formula to determine the movement budget are not in line with international best practice.

Update

As we shared in the [2020 Year End Update](#), the night flight budget will remain at its current level until there is passenger growth beyond 2019 numbers. Given the financial and operational devastation in the aviation industry because of COVID-19, our priority was industry recovery and stability; updates to the review of the Night Flight Restriction Program will not be pursued at this time.

NMAP Accomplishments

- ✓ Launched Noise Management Forums in 2019
- ✓ Community Proposal Review Process launched in June 2021
- ✓ Published updated Complaint Process
- ✓ Completed A320 Family review and began tracking usage at Toronto Pearson against database – updated annually
- ✓ Six Ideas:
 - ✓ Ideas 1-4 implemented
 - ✓ Idea 5 tested summer 2018, trialed summer 2019 (will not be pursued based on trial results and community feedback)

- ✓ Idea 6 one-year trial began February 2020, (extended, application submitted to Transport Canada)
- ✓ Launched InsightFull, a new noise management website
- ✓ Began publishing standard noise reports
- ✓ Work completed for Pilot School Air Conditioning Program at Marvin Heights

The GTAA is building a post-pandemic strategic plan where Toronto Pearson remains a global standard-bearer for passenger-friendly travel while continuing to create opportunity for local prosperity. This will also include a revised vision for our Noise Management Program and Action Plan. These programs are essential to ensure we grow responsibly alongside our neighbours.

Other Updates

Implementation of RNP AR

In late 2021, NAV CANADA launched a public consultation as part of this proposal to introduce airspace enhancements known as Required Navigation Performance - Authorization Required (RNP AR) for two runway ends at Toronto Pearson.

RNP AR provides the opportunity to design shorter, more direct arrival routes, enabling aircraft to turn towards the airport sooner. These procedures will support environmental sustainability efforts by significantly reducing greenhouse gases and the overflight of residential areas.

Based on the feedback from the 2021 consultation, and the anticipated benefits of RNP AR, NAV CANADA implemented these new approaches on November 28, 2022.

An assessment of the change will be completed after a 180-day period and a report will be shared following the completion of the assessment in late summer/early fall 2023. Learn more [here](#).

Runway 06L/24R rehabilitation

In April 2022, Toronto Pearson temporarily closed east/west runway 06L/24R, the airport's second-busiest runway, for a full rehabilitation. The work was completed, on time, and on budget in November 2022.

A robust communications and community engagement campaign began in the Fall 2021 and into early 2022 leading up to the start of the work to ensure each resident expected to be impacted by the work had an understanding of the project, and that the impacts were temporary. The communications and outreach included:

- A [dedicated website](#) to keep community members informed about project updates
- [Checking In - Monthly e-newsletters](#) to a distribution list of approximately 12,000 subscribers, and regular e-newsletters to engaged stakeholders
- Mail drop postcards delivered by Canada Post to over 50,000 households
- Continuous engaging content for social media audience - engaged 600 followers
- Geotargeted automated phone messages to over 165,000 households around the airport and full-page wrap print in local papers in advance of changes to which areas are impacted
- Virtual briefings for elected officials, neighbourhood table members and residents
- Over 30 dedicated briefings with elected officials
- One on one briefings with residents on request

The information assured our neighbours that all mitigation efforts were explored and explained the necessity of the project for the continued safe operation of the airport and safety of passengers, employees and the communities surrounding the airport.

The 06L/24R rehabilitation project was one of the largest runway repair projects in the airport's history and has extended the life of the runway by about 30 years.

Stay in Touch!

- Sign up for our monthly community e-newsletter, Checking In at torontopearson.com/checkingin
- Learn more about airport operations and community impacts by visiting our interactive noise information portal at airportnoise.torontopearson.com
- Email us at community.engagement@gtaa.com
- To log a complaint, call us at 416-247-7682 or [submit online](#)
- Join us at Pearson Public Meetings – Dates for 2023 Pearson Public Meetings will be posted on our website at torontopearson.com/nmf