



# Noise Management Action Plan Update

## April 20, 2016



# Objectives

1. Noise Management Action Plan Update
  - NMT Review
  - Research Best Practices
2. CENAC Feedback



# Noise Management Action Plan Update



# NMT Review Update

Initiative	Details
Assessment of Noise Monitoring Terminal (NMTs) Locations	Data analysis complete Working Group to assess results and prepare recommendation for June 22nd CENAC meeting

# Research Industry Best Practices

Research	Details
1. Noise Complaint process	Review noise complaint process in place at other leading airports. Research role of Noise Ombudsman Implement changes to WebTrak for greater ease of use and functionality
2. Noise Reporting Metrics	Will review industry best practices on noise metrics and reporting to reflect current concerns

# Research Best Practices at other Airports

Research	Nature of Research
3. Noise Management Programs/Fly Quiet Programs	<ul style="list-style-type: none"><li>• Determine programs in place at other airports and what elements could be considered for Toronto Pearson</li><li>• Technology and resources required to monitor and report results</li></ul>
4. Quieter fleet initiatives – A319, A320, A321 retrofit	<ul style="list-style-type: none"><li>• Future plans for these aircraft at Toronto Pearson</li><li>• Costs and timelines involved in retrofit</li><li>• Types of incentive programs in use by airports</li></ul>

# Fly Quiet Program – London Heathrow



## FlyQuiet Programme

A quieter Heathrow  
FlyQuiet league table – Q4 2015

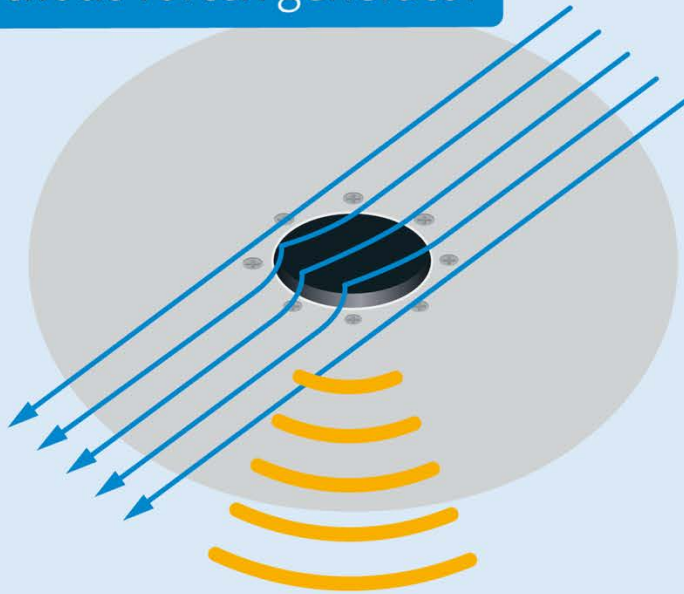
**Heathrow**  
Making every journey better

Rank	Airline name	1 QC/seat	2 Chapter number	3 CDA violations	4 Track keeping violations	5 Pre-0430	6 Pre-0500
1	British Airways - short haul	●	●	●	●	●	●
2	Aer Lingus	●	●	●	●	●	●
3	Etihad Airways	●	●	●	●	●	●
4	American Airlines	●	●	●	●	●	●
5	Emirates	●	●	●	●	●	●
6	Qantas Airways	●	●	●	●	●	●
7	Scandinavian Airlines System	●	●	●	●	●	●
8	United Airlines	●	●	●	●	●	●
9	Delta Air Lines	●	●	●	●	●	●
10	KLM Royal Dutch Airlines	●	●	●	●	●	●
11	Air Malta	●	●	●	●	●	●
12	Cathay Pacific Airways	●	●	●	●	●	●
13	British Airways - long haul	●	●	●	●	●	●
14	Icelandair	●	●	●	●	●	●
15	Air Canada	●	●	●	●	●	●
16	Finnair	●	●	●	●	●	●
17	Malaysia Airlines	●	●	●	●	●	●
18	Virgin Atlantic Airways	●	●	●	●	●	●
19	TAP Portugal	●	●	●	●	●	●
20	Deutsche Lufthansa	●	●	●	●	●	●
21	Eurowings	●	●	●	●	●	●
22	Saudi Arabian Airlines	●	●	●	●	●	●
23	Iberia	●	●	●	●	●	●
24	Qatar Airways	●	●	●	●	●	●
25	Singapore Airlines	●	●	●	●	●	●
26	Germanwings	●	●	●	●	●	●
27	Thai Airways	●	●	●	●	●	●
28	Air France	●	●	●	●	●	●
29	Iberia Express	●	●	●	●	●	●
30	Austrian Airlines	●	●	●	●	●	●
31	Aegean Airlines	●	●	●	●	●	●
32	Air India	●	●	●	●	●	●
33	Croatia Airlines	●	●	●	●	●	●
34	Alitalia	●	●	●	●	●	●
35	Gulf Air	●	●	●	●	●	●
36	Swiss International Airlines	●	●	●	●	●	●
37	Turkish Airlines - short haul	●	●	●	●	●	●
38	South African Airways	●	●	●	●	●	●
39	Pakistan International Airlines	●	●	●	●	●	●
40	LOT	●	●	●	●	●	●
41	Air China	●	●	●	●	●	●
42	Aeroflot - short haul	●	●	●	●	●	●
43	Turkish Airlines - long haul	●	●	●	●	●	●
44	Korean Air	●	●	●	●	●	●
45	European Air Transport	●	●	●	●	●	●
46	Middle East Airlines	●	●	●	●	●	●
47	Kuwait Airways	●	●	●	●	●	●
48	SN Brussels - short haul	●	●	●	●	●	●
49	Jet Airways	●	●	●	●	●	●
50	El Al	●	●	●	●	●	●

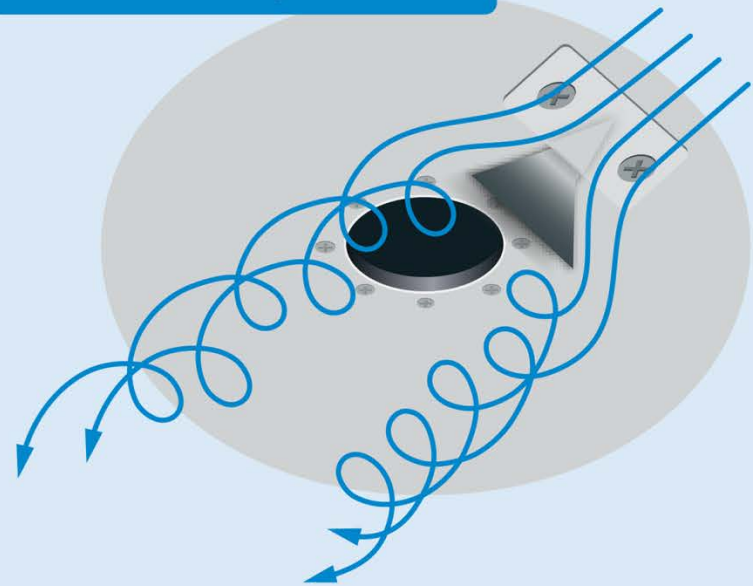
# Vortex Generator

## Principle of the vortex generator

without vortex generator



with vortex generator







# CENAC Feedback



# Next Steps and CENAC Feedback

## CENAC Feedback

- Thoughts on research items?
- Are there any other research items you'd like to see?
- Airports you'd like us to look at?





Thank you



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International Airport | Aéroport International