

**AERONAUTICAL  
INFORMATION  
CIRCULAR (AIC)****H09/22****Effective: 202204141600 UTC**

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# **SYDNEY/KINGSFORD SMITH AIRPORT (YSSY) LOW LEVEL WAKE TURBULENCE AND WINDSHEAR DETECTION TRIAL**

## **1. INTRODUCTION**

- 1.1 Light Detecting and Ranging (LIDAR) units are commonly employed overseas and form the basis of an integrated low-level windshear alerting system at many international airports.
- 1.2 A LIDAR unit will be deployed at Sydney Airport near the threshold of runway 34R for a 6 month trial commencing 15 April 2022.
- 1.3 This unit will be initially used to analyse the travel of wake vortices during parallel runway operations and analyse meteorological phenomena that may adversely impact on aviation operations.
- 1.4 During the trial the equipment will be evaluated by Sydney Airport with the assistance of the Bureau of Meteorology. The trial will take place during both curfew and non-curfew periods.

## **2. DURATION**

- 2.1 The trial will be operating for a 6 month period until October 2022.

## **3. OPERATION**

- 3.1 In order to understand turbulence encounters in the vicinity of the airport it is critical to receive pilot reports of all turbulence events including wake turbulence, significant mechanical turbulence or windshear as quickly as possible. This will enable the timely extraction of weather and LIDAR data to facilitate an accurate analysis of reported events.

- 3.2 In order to facilitate this reporting an email address, [salt@syd.com.au](mailto:salt@syd.com.au) has been established.
- 3.3 Queries relating to the trial may also be sent to this email address.
- 3.4 When reporting such events, the following information is requested:
- a) Aircraft callsign
  - b) Aircraft type
  - c) Date and time (UTC)
  - d) Aircraft location
  - e) Aircraft altitude
  - f) Wind direction and speed
  - g) Nature of the event

*Note: Reporting via this method does not replace the reporting requirements to Air Traffic Control or as mandated by company policy, CASA or ATSB.*

#### **4. CANCELLATION**

- 4.1 This AIC will remain current until 31 December 2022.

#### **5. DISTRIBUTION**

- 5.1 Airservices Australia website only.