

OPERATIONS



OVERVIEW

- Modes of operation for parallel runways
- Maximising operations and minimising noise impacts

PROJECT UPDATE
JULY 2017

Brisbane's new runway system will be operated to maximise operations over Moreton Bay in order to minimise noise impacts.

Parallel runways provide the best opportunity to maximise the number of aircraft that can fly into and out of an airport. At Brisbane Airport the proposed two parallel runway system will be able to be used in a number of ways, commonly referred to as 'modes of operation'.

Each mode of operation is allotted a 'preference'. That is, each mode will be given an order of 1st, 2nd or 3rd preference. With two parallel runways in operation the preference ranking will be as follows:

- **1st:** Over Bay operations (see diagram below)
- **2nd:** 19 parallel operations (see diagram over)
- **3rd:** 01 parallel operations (see diagram over)

Safety is the most important consideration in operating an airport, with the choice of mode at any given time dependent on a combination of factors including:

- Weather conditions – especially wind direction and speed, rain, visibility, distance and level of cloud base
- The number of aircraft presenting for arrival at the airport within a given period
- The number of aircraft wishing to depart from the airport within a given period

1st Preference: Over Bay operations have aircraft arriving and departing over Moreton Bay which can be operated in two different ways:

- Simultaneous opposite direction parallel runway operations (SODPROPS); and
- Dependent opposite direction parallel runway operations (DODPROPS)



About Brisbane Airport: Brisbane Airport is the third busiest airport in Australia and operates 24 hours a day, seven days a week. It is Australia's largest capital city airport (by land size) and has two major terminals providing services to 31 airlines flying to 80 international and domestic destinations. In FY17 Brisbane Airport welcomed more than 22.7 million passengers through its facilities.

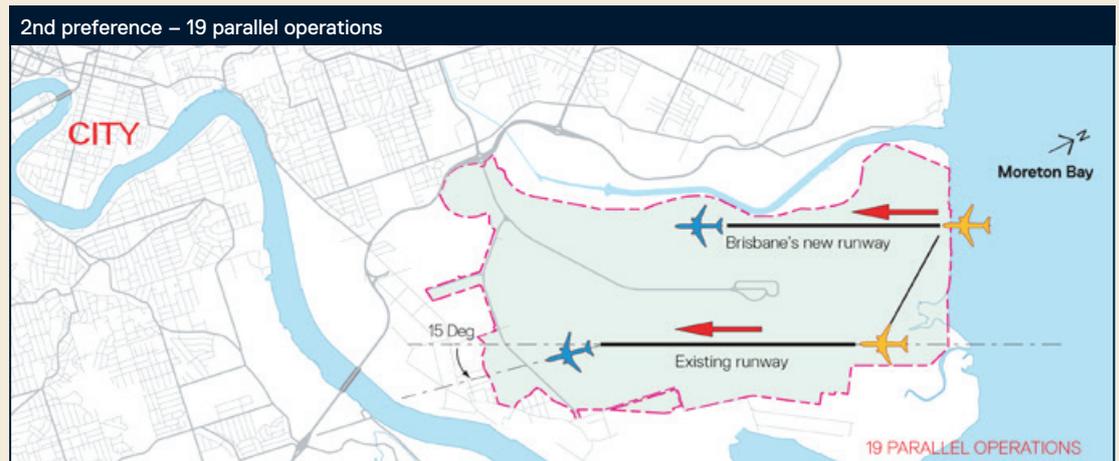
They each have differing factors allowing their operation:

- SODPROPS allows an aircraft to arrive from over the bay onto the new runway while another aircraft can depart over the bay simultaneously in the opposite direction on the existing runway. It requires a dry runway with no more than a five knot downwind and no more than 25 aircraft per hour presenting for arrival*
- DODPROPS allows an aircraft to land over the bay onto the new runway while another aircraft is sequenced to take off over the bay on the existing main runway as soon as the landing aircraft has completed its approach. It

requires a dry runway with no more than 10 knot downwind and no more than 10 aircraft per hour presenting for arrival*

- The Over Bay mode is a lower capacity operating mode compared to 19 and 01 parallel operations. Therefore, because the number of aircraft arriving and departing is less at night (between 10pm and 6am), Over Bay operations can be most often used at noise sensitive times such as at night and on weekends

**Final details for the operating modes will be determined in conjunction with Airservices and CASA ahead of Brisbane's new runway opening.*



For 19 and 01 parallel operations:

- Arrivals and departures to/from ports in the north and west will use the new runway
- Arrivals and departures to/from ports in the south and east will continue to use the existing runway



- The 19 parallel and 01 parallel modes of operation can manage much higher volumes of traffic than Over Bay operations
- With the capacity to accept up to 50 arrivals per hour they will be the predominant modes of operation during the day and evening hours (6am to 10pm)
- When traffic levels reduce and weather permits, operations will switch to Over Bay operational modes as discussed earlier in this Fact Sheet
- The triggers for deciding when and how to change an operating mode from the 1st to 2nd or 3rd preference level, as well as the final details for the operating modes, will be determined in conjunction with Airservices and CASA ahead of the commissioning of Brisbane's new runway, which is expected to occur in late 2020
- To view aircraft movements into and out of Brisbane Airport visit Webtrak at: www.airservicesaustralia.com/aircraftnoise/webtrak