

OPERATIONS DURING RUNWAY MAINTENANCE

When do you return to single runway operations?

We return to single runway operations using Runway 1^{Runway 23R/05L} between 2200 and 0600 hrs; unless the Runway is not available. We switch back to the same single runway mid-morning till the afternoon. The remainder of the time we operate 'dual runway operations; see our *Runway Data Sheet* (pictured right) or visit www.manchesterairport.co.uk/runwaydatasheet.

Why might a runway have to close?

Either runway may need to be temporarily closed for a period of planned or emergency maintenance, or in the event of an incident.

What if a runway has to close?

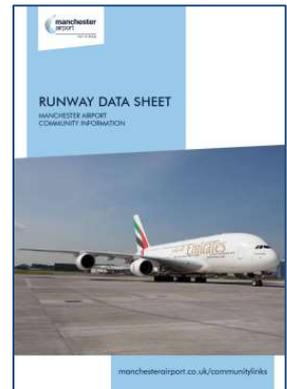
If Runway 2^{Runway 23L/05R} closes we return to our day and night time closure operating procedure. If Runway 1^{Runway 23R/05L} closes then we will use Runway 2 for landings and departures. We are only allowed to do this in the night time when we either have an emergency or have planned maintenance. This may happen for a few minutes or a longer period depending on the reason but we will always keep it to the minimum period as we know that it causes concern to our neighbours.

What maintenance work is required?

To maintain our runways in top condition they require regular attention and maintenance from drainage clearing to resurfacing. Runway 1^{Runway 23R/05L} is our prime runway, in use 24 hrs a day, seven days a week and so experiences the heaviest wear.

When does maintenance take place?

Because Runway 2^{Runway 23L/05R} is closed at night and in the day; in the normal course of events we can carry out maintenance on this Runway at these times and so no special closure is needed. Runway 1^{Runway 23R/05L} is in 24 hour operation and so to maintain it we need to close it and move our operations onto on Runway 2^{Runway 23L/05R}. This causes us problems for several reasons; you need to cross Runway 1^{Runway 23R/05L} to get to Runway 2^{Runway 23L/05R} and there is limited aircraft manoeuvring area alongside Runway 2^{Runway 23L/05R}. For these reasons maintenance is carried out at night; when there is less demand from aircraft to use our runways. We challenge our maintenance team to ensure that all work is completed overnight leaving Runway 1^{Runway 23R/05L} to reopen for use again at 06:00 hrs the next morning. In this way we ensure that our passengers can still fly from their local airport.



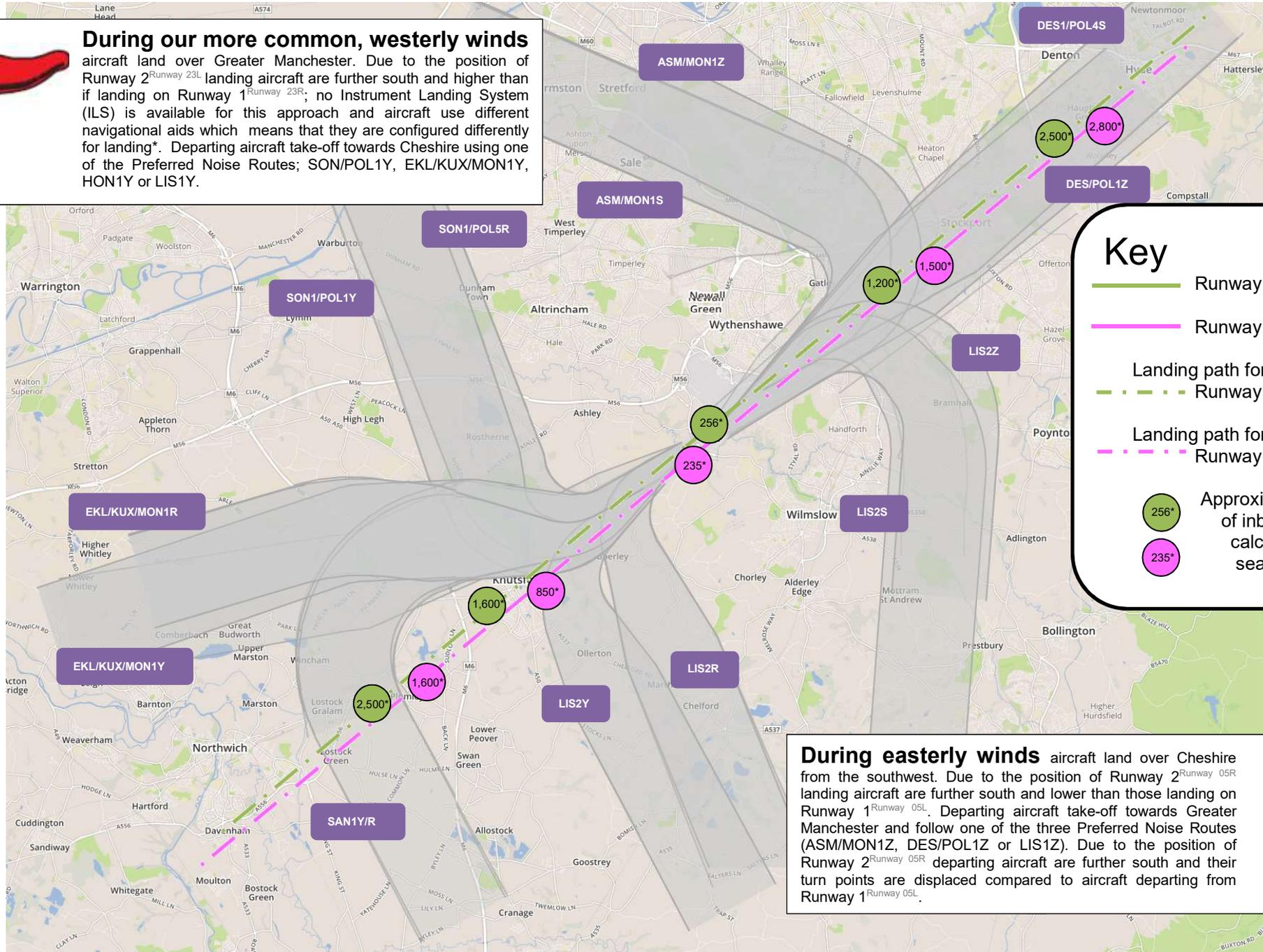
When Runway 2^{Runway 23L/05R} is used as a single runway, how does it operate?

The direction, in which the Runway is used, is dependent on the prevailing weather conditions, see below:

***In exceptional circumstances Air Traffic Control may, at their discretion, for safety or operational reasons, alter these procedures.**



During our more common, westerly winds aircraft land over Greater Manchester. Due to the position of Runway 2^{Runway 23L} landing aircraft are further south and higher than if landing on Runway 1^{Runway 23R}, no Instrument Landing System (ILS) is available for this approach and aircraft use different navigational aids which means that they are configured differently for landing*. Departing aircraft take-off towards Cheshire using one of the Preferred Noise Routes; SON/POL1Y, EKL/KUX/MON1Y, HON1Y or LIS1Y.



Key

- Runway 1^{Runway 23R/05L}
- Runway 2^{Runway 23L/05R}
- Landing path for aircraft onto Runway 1^{Runway 23R/05L}
- Landing path for aircraft onto Runway 2^{Runway 23L/05R}
- Approximate altitude of inbound aircraft calculated above sea level (feet)*.

During easterly winds aircraft land over Cheshire from the southwest. Due to the position of Runway 2^{Runway 05R} landing aircraft are further south and lower than those landing on Runway 1^{Runway 05L}. Departing aircraft take-off towards Greater Manchester and follow one of the three Preferred Noise Routes (ASM/MON1Z, DES/POL1Z or LIS1Z). Due to the position of Runway 2^{Runway 05R} departing aircraft are further south and their turn points are displaced compared to aircraft departing from Runway 1^{Runway 05L}.

