

Western Sydney International (Nancy-Bird Walton) Airport

Preliminary flight paths



The new Western Sydney International (Nancy-Bird Walton) Airport (WSI) is set to open for domestic and international travellers, and freight by late 2026.

The draft Environmental Impact Statement (EIS) for the preliminary flight paths for WSI is now on public exhibition. The draft EIS examines the impact of the proposed flight paths on the environment and the community. The public is invited to make submissions on the draft EIS by visiting wsiflightpaths.gov.au/make-a-submission.

This brochure sets out the preliminary flight paths and explains some of the key factors that have influenced their design.

View the preliminary flight paths

Designing flight paths is highly technical work. The work involves thorough validation and review to ensure aircraft can use the flight paths. The design has to balance the needs of the community, environment, industry and users of the Greater Sydney airspace, while maintaining safety as the priority.

You can view the preliminary flight paths and the predicted impacts on the Aircraft Overflight Noise Tool, via <u>wsiflightpaths.gov.au</u>. We understand you may have a wide range of questions about the preliminary flight paths. To answer your questions, we will be available to speak with you at our Community Information and Feedback Sessions. You can also email us your questions or call us on the number below.

Have your say

You can have your say on the preliminary flight paths and draft EIS by making a submission.

Submissions can be provided:

- Online at **wsiflightpaths.gov.au**
- By email to eis.submissions@ infrastructure.gov.au
- By mail to Attn: WSI Flight Paths Team, GPO Box 594, CANBERRA ACT 2601

Find out more

Visit the Aircraft Overflight Noise Tool to view the preliminary flight paths in more detail at wsiflightpaths.gov.au

View the draft EIS and project information on our Online Community Portal: wsiflightpaths.gov.au

Email us your questions at wsiflightpaths@infrastructure.gov.au



Attend our Community Information and Feedback Sessions to find out more and speak to a member of our team

You can register to attend via wsiflightpaths.gov.au/visit-us



Scan this QR code to access our Online Community Portal.

A new airport for Western Sydney

In April 2014, the Australian Government announced that Badgerys Creek would be the location of a new airport for Western Sydney. WSI will be a 24-hour airport capable of handling domestic and international passengers and freight services.

Stage 1 of WSI is now under construction and will open by late 2026. The Stage 1 development includes a single runway, a single integrated domestic and international passenger terminal and road and rail links to Sydney's transport network.

The runway is orientated on an approximate north-east/ south-west or 050/230-degree orientation (referred to as Runway 05 and Runway 23). This runway alignment was evaluated and approved during the planning process for the Stage 1 WSI development in 2016.

What's happening now?

The Australian Government is responsible for developing the flight paths for single runway operations at WSI by the end of 2026. We are currently in the preliminary design and environmental assessment phase for single runway operations. WSI will initially handle up to 10 million passengers annually and around 81,000 air traffic movements per year by 2033, including freight operations. Single runway operations are expected to reach capacity at around 37 million passengers annually and 226,000 air traffic movements per year in 2055. Future planning for WSI includes a second parallel runway and space has been reserved for this within the airport site.

Operating without a curfew or other operating restrictions is important to the economic viability of WSI and the contribution that WSI will make to the regional, state, and national economies. WSI has been designed to operate 24-hours per day and 7-days per week and land use planning controls have been put in place to ensure that incompatible developments are minimised in noise affected areas in proximity to WSI.

A draft Environmental Impact Statement (EIS) has been released. The draft EIS examines the noise, social and environmental impacts of the proposed flight paths. We are now seeking feedback from the community on the EIS as part of the formal public exhibition period. Following this period, the feedback will be considered in finalising the EIS and refining the flight paths.





WSI runway construction



WSI terminal construction
WSI terminal construction photos: WSA Co

WSI Stage 1 development

Runway modes of operation

Generally, aircraft land and take-off into the wind. The prevailing wind conditions influence which runway direction is being used at any time during the day and evening. When **Runway 05** is used, all aircraft arrive from the south-west and depart to the north-east. When **Runway 23** is used all aircraft arrive from the north-east and depart to the south-west.

At night (11pm to 5.30am), when air traffic demand is lower and weather conditions permit (generally in calm wind conditions with no rain), head-to-head **Reciprocal Runway Operations (RRO)** can be used to minimise the impact of noise on the most heavily populated areas of Western Sydney. This means that aircraft would land on Runway 05 – arriving from the south-west – and take-off on Runway 23 – departing to the south-west.

Day/Evening 5.30am to 11pm Runway 05 Runway 23 Image: Constraint of the second second

WSI Day/Evening (5.30am to 11pm) runway modes of operation

WSI Night (11pm to 5.30am) runway modes of operation



*RRO is suitable only at night (11pm to 5.30am) when air traffic demand levels and weather conditions permit.

Airspace design principles

In response to feedback received during public exhibition of the draft EIS for the overall WSI Stage 1 Development in 2015, the Western Sydney Airport Plan sets out 12 Airspace Design Principles that the design process is required to follow:





All flights arriving (gold) and departing (blue) Sydney Airport over a one-day period in 2017.

Existing airports in Greater Sydney

The Greater Sydney Area covers the area between Sutherland and Bargo in the south, the Central Coast in the north, and Mt Victoria in the west.

The Greater Sydney airspace is the busiest airspace in Australia. Most areas, including Western Sydney, currently experience some level of daily aircraft overflight, with aircraft traveling to and from existing airports including Sydney Kingsford-Smith, Bankstown, Camden and surrounding military bases.

Recreational aviation activities also need to be considered in the flight path design process. These flights include gliders, ballooning, parachuting, and a number of daily emergency response aircraft movements.

To learn more about Greater Sydney airspace please read our <u>Airspace</u> <u>Constraints Fact Sheet</u>, available at wsiflightpaths.gov.au/resources

Safety requirements

All flight path designs must comply with Civil Aviation Safety Authority regulations and standards, and International Civil Aviation Organization Standards and Recommended Practices.

These include safe separation of aircraft from each other and clearance between aircraft and terrain and other obstacles.



Aircraft separation standards in terminal control areas

Preliminary flight paths for WSI

The following pages show the preliminary flight path diagrams for each of WSI's runway modes of operations. These flight paths are preliminary and detailed design will be undertaken from 2024 following consideration of feedback received during the public exhibition of the draft EIS.

An Aircraft Overflight Noise Tool has been developed to better communicate the preliminary flight paths in an online interactive application. To view the preliminary flight paths and accompanying noise assessment on your desktop or mobile please visit the **Aircraft Overflight Noise Tool** at **wsiflightpaths.gov.au**. The Aircraft Overflight Noise Tool shows the aircraft arrival and departure flight paths and allows you to search an address and see the forecast indicative altitude of the flight paths, forecast number of flights, and noise mapping, including the estimated aircraft noise in decibels at different locations.

Runway 05 Day arrivals and departures

- Departing aircraft takeoff from Runway 05 in a north-easterly direction. Arriving aircraft land on Runway 05 approaching from the south-west.
- Left turns after takeoff are delayed to avoid the Orchard Hills Defence Establishment restricted airspace.
- Left turns after take-off have been designed to reduce residential overflight noise north of WSI by tracking as far west as possible of St Clair.
- Minimises aircraft overflight noise for residential areas along the Great Western Highway to the extent possible. Departures to the west remain north of the Great Western Highway.
- Arrival turns onto the final approach for Runway 05 are designed to avoid low level overflight of Silverdale.
- Eastbound departures climb to the west and south-west, before turning east, to avoid conflict with Sydney and Bankstown airport traffic.



RUNWAY 05 DAY ARRIVALS AND DEPARTURES	ARRIVALS INDICATIVE ALTITUDE AMSL (ft)	≈ 20,000	DEPARTURES INDICATIVE ALTITUDE AMSL (ft)	≈ 20,000
		ft		ft

Runway 23 Day arrivals and departures

- Departing aircraft takeoff from Runway 23 in a south-westerly direction. Arriving aircraft land on Runway 23 approaching from the north-east.
- Right turns after take-off for Jet aircraft have been delayed to reduce residential overflight noise by avoiding Silverdale.
- Departures to the north are designed to cross the Great Western Highway at an area of low population density.
- Departure turns onto southerly tracks gain height over nonresidential areas to avoid conflict with Sydney, Bankstown and Camden airport traffic.
- Arrivals tracks from the north have been designed where possible to avoid current and future residential areas in the north-west growth areas.
- Arrival and departure tracks from the west are designed to avoid residential areas in the lower Blue Mountains to the extent possible.



RUNWAY 23 DAY ARRIVALS AND DEPARTURES

ARRIVALS INDICATIVE ALTITUDE AMSL (ft)	DEPARTURES INDICATIVE ALTITUD	E AMSL (ft)
>0ft ≈ ft	20,000 >0 ft	≈ 20,000 ft

Night Reciprocal Runway Operations (RRO) arrivals and departures

- Departing aircraft take-off from Runway 23 in a south-westerly direction. Arriving aircraft land on Runway 05 approaching from the south-west.
- The RRO runway mode may be utilised at night, when it is safe to do so, depending on suitable meteorological conditions and aircraft traffic levels. It positions aircraft manoeuvring at lower altitudes to the immediate south-west of WSI, over the lower density rural and ruralresidential zones.
- In RRO runway mode, departing aircraft are required to turn as early as possible to avoid conflict with arriving aircraft, and maintain sufficient arrival/departure capacity.
- Night arrival and departure flight paths are designed to take advantage of the increased airspace flexibilities resulting from reduced overnight flight activities at Sydney, Bankstown and other airports in the Greater Sydney area.
- Departures to the north are designed to cross the Great Western Highway at an area of low population density.
- Aircraft departing to the south and east remain clear of Camden, The Oaks, Picton, Tahmoor and Wilton.
- All arriving aircraft turn on to final approach south-west of The Oaks and south of Silverdale to minimise the aircraft overflight noise for residential areas.



NIGHT RECIPROCAL RUNWAY OPERATIONS (RRO) DAY ARRIVALS AND DEPARTURES

ARRIVALS INDICATIVE ALTITUDE AMSL (ft)		DEPARTURES INDICATIVE ALTITUDE AMSL (ft)	
>0 ft	≈ 20,000 ft	>0 ft	≈ 20,000 ft

Runway 05 Night arrivals and departures

- Departing aircraft takeoff from Runway 05 in a north-easterly direction. Arriving aircraft land on Runway 05 approaching from the south-west.
- Night arrival and departure flight paths are designed to take advantage of the increased airspace flexibilities resulting from reduced overnight flight activities at Sydney, Bankstown and other airports in the Greater Sydney area.
- Left turns after take-off have been designed to reduce residential overflight noise northeast of WSI by turning early to avoid St Clair. Departures to the north track over non-residential land between Werrington and St Marys.
- Minimises aircraft overflight noise for residential areas along the Great Western Highway to the extent possible. Departures to the west remain south of the Great Western Highway.
- Departure tracks to the south and east remain clear of Picton, The Oaks, Tahmoor and Wilton.



RUNWAY 05 NIGHT ARRIVALS AND DEPARTURES

ARRIVALS INDICATIVE ALTITUDE AMSL (ft)	DEPARTURES INDICATIVE ALTITUDE AMSL (ft)
>0 ft ~ 20,000	>0 ft ≈ 20,000
ft ft	ft

Runway 23 Night arrivals and departures

- Departing aircraft takeoff from Runway 23 in a south-westerly direction. Arriving aircraft land on Runway 23 approaching from the north-east.
- Night arrival and departure flight paths are designed to take advantage of the increased airspace flexibilities resulting from reduced overnight flight activities at Sydney, Bankstown and other airports in the Greater Sydney area.
- Departing aircraft turns to the north are delayed until passing south and west of Silverdale and Wallacia.
- Arrivals from the north are designed to cross the Great Western Highway at an area of low population density.
- Eastbound departing aircraft remain south of Camden, Menangle, and Bundeena.

RUNWAY 23



ARRIVALS INDICATIVE ALTITUDE AMSL (ft) DEPARTURES INDICATIVE ALTITUDE AMSL (ft) NIGHT ARRIVALS AND DEPARTURES >0 ft ≈ 20,000 ≈ 20,000 >0 ft ft ft

Next steps



Use the <u>Aircraft Overflight Noise Tool</u> at <u>wsiflightpaths.gov.au</u> to view preliminary WSI flight paths and how they are likely to affect specific addresses or places of interest.



Go to the WSI airspace and flight path design <u>Online Community Portal</u> at <u>wsiflightpaths.gov.au</u> to view the draft EIS and for more information on the draft EIS process, flight path design process, videos and details of upcoming community engagement events.



View the draft noise insulation and property acquisition policy and draft EIS on preliminary flight paths on the **Online Community Portal** at **wsiflightpaths.gov.au**, and make a formal submission.



Attend our Community Information and Feedback Sessions to find out more and speak to a member of the team. Visit the **Online Community Portal** at **wsiflightpaths.gov.au** to view upcoming community information events near you. You can also call **1800 038 160** for details of events.

Have your say

If you would like to make a formal submission on the preliminary flight paths and the draft EIS, you can do so via:

- The Online Community Portal at wsiflightpaths.gov.au;
- Email eis.submissions@infrastructure.gov.au
- Mail Attn: WSI Flight Paths Team, GPO Box 594, CANBERRA ACT 2601.

Your feedback will be considered in finalising the EIS.

The final EIS must take account of any comments received during the exhibition period and contain a summary of comments and how comments have been addressed under the Environment Protection and Biodiversity Conservation Act 1999 (Cth).

The draft EIS is available on the **Online Community Portal** at **wsiflightpaths.gov.au**. If you would like to stay informed about the WSI flight paths and receive notifications about the project, you can sign up for email updates by scanning the QR code.



Find out more
Visit the Aircraft Overflight Noise Tool to view the preliminary flight paths in more detail at wsiflightpaths.gov.au
View the draft EIS and project information on our Online Community Portal: wsiflightpaths.gov.au
Email us your questions at wsiflightpaths@infrastructure.gov.au
Call us on 1800 038 160
Attend our Community Information and Feedback Sessions to find out more and speak to a member of our team
You can register to attend via wsiflightpaths.gov.au/visit-us

Information in your language



Translating and Interpreting Service (TIS National)

If you require the services of an interpreter, please contact the Translating and Interpreting Service on **131 450** and ask them to call the WSI Flight Paths team on **1800 038 160**.

Nếu quý vị cần thông dịch viên, vui lòng gọi cho Dịch vụ Thông Phiên dịch (Translating and Interpreting Service) qua số **131 450** và yêu cầu họ gọi cho đội ngũ phụ trách Đường bay Sân bay Quốc tế Western Sydney (Western Sydney International Airport Flight Paths) qua số **1800 038 160**.

如果您需要口译服务,请致电 **131 450** 联系笔译与口译服务署(Translating and Interpreting Service),并请他们拨打 **1800 038 160** 联系西悉尼国际机场飞行路径团队 (Western Sydney International Airport Flight Paths)

यदि आपको दुभाषिए की सेवाओं की ज़रूरत है, तो कृपया **131 450** पर अनुवाद और दुभाषिया सेवा (Translating and Interpreting Service) से संपर्क करें और उनसे **1800 038 160** पर पश्चिमी सिडनी अंतरराष्ट्रीय हवाई अड्डा उड़ान पथ (Western Sydney International Airport Flight Paths) टीम को कॉल करने का अनुरोध करें।

إذا كنت بحاجة لخدمات الترجمة الشفوية، فيرجى الاتصال بخدمة الترجمة الكتابية والشفوية (Translating and Interpreting Service) على الرقم ٤٥٠ ١٣١ وأطلب منهم الاتصال بالفريق المعني بمسارات الطيران في مطار سيدني الغربية الدولي (Western Sydney International المن على الرقم ١٩٠ ١٨٠٠

Kung kailangan mo ng mga serbisyo ng isang tagasaling pasalita (interpreter), mangyaring makipag-ugnayan sa Serbisyo ng Pagsasaling Pasulat at Pasalita (Translating and Interpreting Service) sa **131 450** at hilingin sa kanila na tawagan ang pangkat ng Mga Landas ng Paglipad sa Paliparang Internasyonal ng Western Sydney (Western Sydney International Airport Flight Paths) sa **1800 038 160**.

View this brochure in languages other than English

Please scan this QR code to view information in languages other than English.

Vui lòng quét mã QR này để xem thông tin bằng các ngôn ngữ khác ngoài tiếng Anh.

请扫描二维码查看中文信息。

अंग्रेज़ी के अलावा अन्य भाषाओं में जानकारी देखने के लिए कृपया यह QR कोड स्कैन करें।

يُرجى مسح رمز الاستجابة السريعة QR code هذا لعرض المعلومات بلغات أخرى غير الإنجليزية.

Paki-scan ang QR code na ito para makita ang impormasyon sa ibang wika maliban sa Ingles.



