

Hi there,

I refer to your request for an Airservices assessment of the proposed The Plains Wind Farm.

### **Airspace Procedures**

With respect to procedures designed by Airservices in accordance with ICAO PANS-OPS and Doc 9905, at a maximum height of 364.48m (1196ft) AHD, the wind farm will affect the 25nm MSA, 10nm MSA, RNP RWY 04 and RNP RWY 22 instrument procedures at Hay aerodrome.

To accommodate the wind farm, the following must be done:

- The 25NM MSA needs to increase from 1700ft to 2200ft.
- The 10NM MSA needs to increase from 1600ft to 2200ft.
- RNP RWY 04 approach:
  - o Initial approach fix start altitude needs to increase from 2000ft to 2200ft
  - o Initial segment minimum safe altitude needs to increase from 1700ft to 2200ft
  - o the missed approach climb altitude needs to increase from 1700ft to 2200ft
  - o the holding pattern minimum altitude needs to increase from 2000ft to 2200ft
- RNP RWY 22 approach:
  - o Initial approach fix start altitude needs to increase from 2000ft to 2200ft
  - o the missed approach climb altitude needs to increase from 1700ft to 2200ft
  - o the holding pattern minimum altitude needs to increase from 2000ft to 2200ft

The above changes are not expected to adversely impact operations utilising the instrument approach procedures.

*The maximum height of the wind farm without affecting any procedures at Hay aerodrome is 187.7m (616ft) AHD.*

Note: Procedures not designed by Airservices at Hay aerodrome were not considered in this assessment.

### **Grid lowest safe altitude (LSALT)**

It is our view that the proposed wind farm will impact the published Grid LSALT.

*The maximum height without affecting the published Grid LSALT is 213m (699ft) AHD.*

### **Communications/Navigation/Surveillance (CNS) Facilities**

We have assessed the proposed activity to the above specified height for any impacts to Airservices Precision/Non-Precision Navigation Aids, Anemometers, HF/VHF/UHF Communications, A-SMGCS, Radar, PRM, ADS-B, WAM or Satellite/Links and have no objections to it proceeding.

### **Air Traffic Control (ATC) Operations**

There are no additional instructions or concerns from our ATC.

### **Summary – permanent impact**

It is our view that the proposed wind farm impacts Airservices designed airspace procedures at Hay aerodrome.

Please consult with the aerodrome and aviation operators to ensure that they accept the proposed changes. We need confirmation from the aerodrome before we make any changes. All amendments to airspace procedures are on a commercial basis.

It is our view that the proposed wind farm impacts Airservices designed Grid LSALT as currently presented. The Grid LSALT will need to increase from 1700ft to 2200ft.

Please advise the Vertical Obstacle Data (VOD) team at [VOD@airservicesaustralia.com](mailto:VOD@airservicesaustralia.com) of any need to increase Grid LSALT heights at least two (2) weeks before construction commencing by supplying the below information:

- Approved wind turbine locations
- Elevations at the top of the highest point of the turbine in metres AHD
- A copy of this email

### **Vertical Obstacle Notification**

This proposed wind farm is more than 30m (99ft) AGL.

Please follow the below notification process:

1. Complete the Vertical Obstacle Notification Form: [ATS-FORM-0085 Vertical Obstruction Data Form.pdf \(airservicesaustralia.com\)](#)
2. Submit completed form to: [VOD@airservicesaustralia.com](mailto:VOD@airservicesaustralia.com) as soon as the development reaches the maximum height.

For further information regarding the reporting of tall structures, please contact the VOD team:

- Phone - (02) 6268 5622
- Email - [VOD@airservicesaustralia.com](mailto:VOD@airservicesaustralia.com)
- Or refer to: [Civil Aviation Safety Regulation Part 175 — Airservices and You - Airservices \(airservicesaustralia.com\)](#)

If you have any further queries, please let our team know.

Kind regards,



**Alex Blight**

Airspace Development & Protection Coordinator