



NAVIGABLE AIRSPACE DETERMINATION:ROOPU Whakarite Mahi Limited Partnership – Efflux from 13 Cooling Towers at a proposed Geothermal Power Station.

PURSUANT TO Rule Part 77 of the Civil Aviation Rules I, Sean Turangarau Kere Rogers, Manager Aeronautical Services, having received from ROOPU Whakarite Mahi Limited Partnership, notification of intention to generate efflux from a Geothermal Power Station's Cooling Towers near Rotorua Aerodrome, conducted an aeronautical study in consultation with such persons, representatives and organisations as I considered appropriate.

After completing the aeronautical study, I am satisfied that the proposed action, if executed, could constitute a hazard in navigable airspace.

THEREFORE I HEREBY ISSUE A DETERMINATION OF HAZARD IN NAVIGABLE AIRSPACE

in respect of the above notification.

The following conditions are specific to this Determination:

1. ROOPU Whakarite Mahi Limited Partnership should obtain all applicable Council approvals and consents.
2. ROOPU Whakarite Mahi Limited Partnership, in consultation with Rotorua Airport Ltd, should consider applying for a Danger Area (use CAA Form 24071-01) to be established, prior to the cooling towers generating a discharge efflux at a velocity in excess of 4.3 m/s higher than 60 m above ground level, or through an obstacle limitation surface at NZRO (including any testing). The Danger Area (in accordance with Part 71.161) should be as small as practicable to ensure the safety of aircraft operating in the vicinity of the Power Station; the vertical extent of the Danger Area should contain the efflux until the velocity dissipates to 4.3m/s, without a further buffer. CAA NZ requires 90 days' notice of such a proposal; and
3. ROOPU Whakarite Mahi Limited Partnership is to liaise with Aeropath to advise them of the date operating (including testing) will commence at the Power Plant. Aeropath require advanced warning to amend the 3 IFP that will be affected by the discharge efflux.
4. ROOPU Whakarite Mahi Limited Partnership is to liaise directly with Rotorua Airport Ltd and submit to Aeropath, (Attention: Phil Bickerton - Phil.Bickerton@aeropath.aero) with the CAA Determination, a request for a Caution Note to be included, as considered appropriate by Aeropath, on the NZRO Aerodrome Chart.

The provisions of this determination are in addition to and not in derogation of the provisions of any other Act, or any orders or regulations made thereunder.

5. ROOPU Whakarite Mahi Limited Partnership is to test/monitor for any adverse change from the predicted efflux of 4.3m/s velocity at 160m AGL, to the actual, measured, velocity. Such change must be notified to aeronautical.services@caa.govt.nz quoting 24/77/34.

This Determination of Hazard shall become final on 20 March 2024 unless a petition for review is received by the Director prior to that date.

This Determination of Hazard shall not expire but may be revoked, in writing, by the Director.

Dated at Wellington this 26th day of February 2024.

A handwritten signature in black ink, appearing to read 'Sean Rogers', with a stylized flourish at the end.

Sean Turangarau Kere Rogers
Manager Aeronautical Services