

APPENDIX 22

General Guidelines for Positioning of and Construction of Wind Turbines Near Trigonometrical Stations

Land and Property Information, NSW

GENERAL GUIDELINES

for positioning of and construction of Wind Turbines near Trigonometrical Stations.

The following guidelines are designed to assist developers of Wind Farms to position any turbines (towers), buildings or the like, in the proximity of a Trigonometrical Station. The objective of these guidelines is to ensure that there is minimal interference with **survey activities** and the usefulness of the Trigonometrical Station.

Land and Property Information (LPI), expects that these guidelines be adhered to as much as possible when it is proposed to install any structure in the vicinity of a Trigonometrical Station. The applicant is to:

1. Avoid sight lines to nearby population centres and to neighbouring Trigonometrical Stations, particularly to the close ones.
2. Make every effort to position the structures as far as reasonably possible from the Trigonometrical Station.
3. Position the structures generally to the south of the Trigonometrical Station to provide for an unobstructed view to GPS satellites.
4. Avoid disturbing the Trigonometrical Station and its eccentric marks during construction.
5. Avoid sloping roofs of associated buildings towards the Trigonometrical Station.

The following attachments are enclosed for your information and to assist you in positioning the proposed structures:

- a copy of the Trigonometrical Station details extracted from the Survey Control Information Management System (SCIMS)
- a section of a Trigonometrical Station chart, showing the sight lines to other Trigs.

Before a concurrence with the proposed position can be given, it is expected that a diagram/plan be supplied to the LPI for assessment of the impact of the structure on survey activities.

The diagram should show:

- the final proposed location of the structure(s) with respect to the Trigonometrical Station,
- all relevant distances, grid bearings or azimuths between the Trigonometrical Station and the tower, as well as the nearest corners of any compounds,
- provide MGA coordinates for the mechanical centre of one of the proposed towers (the one closest to the Trigonometrical Station). This measured tower would need a distinctive marking, for example, with two horizontally painted bands, say 5m wide (examples attached) or to paint it a completely different colour from the other towers.
- heights of all features (or **elevations** relative to the top of the Trigonometrical monument).

Please note, before any construction on Crown Land is commenced, application for occupation and use of such land should be forwarded to the Department of Trade and Investment, Regional Infrastructure and Services, Primary Industries - Crown Lands (Phone 02 4929 5000). PO Box 2185, Dangar NSW 2309