

Management Plan Copper Mountain Wind Project License of Occupation Application IUP file no. 3412188



Purpose

The purpose of this License of Occupation (LOO) is to enable Wind Prospect British Columbia Inc (WPBCI) to install wind monitoring towers within IUP no. 3412063 to verify the wind resource and determine if this IUP area will support a commercial wind energy development. This management plan provides a description of WPBCI's overall wind strategy for the project, a description of each individual mast location, information relating to the land use and access on site, a description of the met mast tower and its instrumentation, and an outline of the installation plan and tower operation. Although a permit is not required to install SODAR equipment on site, information about SODAR has been included within this plan as the equipment forms part of the wind monitoring strategy. Should this LOO application be successful, met tower installation would follow as soon as possible after.

Wind Monitoring Strategy

The Copper Mountain Wind Project consists of two IUP's 3412188 (this application) and 3412063. WPBCI has identified ten mast locations, five across each IUP, for us to monitor a gain an understanding of the wind regime across the entire 2 IUP site. Although two LOO applications have been submitted separately, a selection of mast locations taken from both of the applications will constitute the collective wind monitoring strategy for the project. As such not all of the identified locations within each application will be utilized. The five locations that have been identified for this application are outlined in Table 1 within the Meteorological (met) tower locations section below.

It is WPBCI's intention to deploy SODAR units on site as soon as possible to get an initial indication of the wind speed. Should the wind resource prove to be viable; met tower installation would follow shortly after accompanied by rotating SODAR units for correlation. Following the initial SODAR assessment, only one met mast will be installed on site initially for the first 3 – 6 months. After this initial period of monitoring, WPBCI will conduct a wind resource assessment to further determine the viability of the site for the development of a commercial wind energy development. Should the wind resource continue to prove viable results, WPBCI will continue to select further mast locations across the entire project area, including locations from this application and from IUP 3412063, for mast installation.

The total number of masts to be installed on the project will be determined as the wind monitoring strategy reveals results. Currently five mast locations, three locations from this application (COPE01, COPE02, COPE04) and three from 3412063 (COPW02, COPW04) have been highlighted as priority locations with COPE02 and COPW02 being the top two locations for initial install.

The SODAR unit will be transported to site either by helicopter or truck, depending on access route viability. It will be secured to the ground by metre-long anchor screws at each corner of the unit. Similar to the met tower, the SODAR unit's recorded data will be sent via satellite link and quality checked weekly to ensure accurate operation. After an initial period of calibration in close proximity to a met tower, the SODAR unit will be relocated several times across the project area to gain a better understanding of the wind regime on site.

The Licence of Occupation Management plan was generated by Mellissa Warren of Wind Prospect on the 15th June 2011

Signature: 

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