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Cellular/PCS Telephone in the Vicinity of the Proposed Roaring Brook Wind Energy Facility in Lewis County, New York

Comsearch was contracted PPM Energy Inc. to analyze the impact that the installation of a wind energy facility in Lewis County, New York would have on the operation of cellular and PCS telephone communications in and around the proposed Roaring Brook Wind Energy facility. Table 1 contains the licensed cellular operators in the Lewis County, New York area. Table 2 contains the PCS operators in the Lewis County, New York area. Cellular and PCS telephone for the Roaring Brook Wind Energy facility vicinity is based on the underlying counties for the facility which is Lewis County. Lewis County is in (Cellular Market Area) CMA559, New York 1-Jefferson for Cellular and (Basic Trading Area) BTA463, Watertown, NY, and (Market Trading Area) MTA001, New York for PCS.

Table 1 Cellular Telephone Operators in Lewis County, New York

Operator	Band	County	License
AT&T/Cingular	A	Lewis	KNKN856
Verizon	B	Lewis	KNKN766

Table 2 PCS Telephone Operators in Lewis County, Vermont

Operator	Band	County	License
T-Mobile	A	Lewis	KNLF202
AT&T/Cingular	A	Lewis	WPLS626
Sprint Nextel	B	Lewis	KNLF204
MCG PCS Inc.	C1	Lewis	WPTF728
Verizon	C2	Lewis	WPSJ989
AT&T/Cingular	D	Lewis	KNLG576
AT&T/Cingular	E	Lewis	KNLG577
Lewis and Clark	F	Lewis	KNLH455

The telephone communications in the Cellular and PCS frequency bands should be unaffected by the presence of the wind turbines. This applies to operations both within and outside of the Roaring Brook Wind Energy facility boundaries. Signal blockage caused by the wind turbines is not that degrading to the mobile telephone network because of the way these systems are designed to operate; that is, if the signal cannot reach one cell the network design allows it to be able to reach one or more other cells in the system. Therefore, local obstacles are not normally a problem for these telephone systems whether they are installed in urban areas near

large structures and buildings or in a rural area such as the Lewis County area near a wind energy turbine facility. If a Cellular or PCS company could show that their coverage has been compromised by the presence of the wind energy facility, an unlikely condition, the way to restore the coverage is to add an additional cell or an additional sector antenna to an existing cell. Utility towers, meteorological towers or even the turbine towers within the Roaring Brook Wind Energy facility can serve as the platform for the Cellular or PCS base station or sector antennas if it is found necessary that they be added to restore lost coverage.