

Application for Experimental Special Temporary Authority

BirdsVision Ltd. ("BirdsVision") hereby seeks Special Temporary Authority ("STA"), under Part 5 of the Commission's rules, to operate at two (2) rural locations in Wyoming in order to test an avian detection and deterrence system at two (2) wind energy projects. BirdsVision previous has obtained authority to perform these operations at 3.8 GHz,¹ and now seeks authority to perform its experiments at 3.5 GHz.

Wind turbine-generated electric power is of great interest today in the United States to reduce greenhouse gas emissions. The wind energy industry, however, wishes to minimize possible detrimental effects of wind turbine operations on birds. PacifiCorp Energy has sponsored testing and development of the BirdsVision WindSafeFlight™ avian detection and deterrence system at two of its wind energy projects in Wyoming.

BirdsVision believes that this system will be capable of detecting birds near wind turbines and activating countermeasures to keep the birds at a safe distance from the spinning turbine blades.

Testing has begun, on the 3.8 GHz frequency band, at Glenrock/Rolling Hills and Seven Mile Hill wind energy projects in Wyoming to evaluate the effectiveness of the technology. Based on positive initial feedback, the parties seek to continue the experimentation and to expand the parameters of it to include additional frequencies, as described below.

¹ FCC File No. 0736-EX-ST-2013 (submitted July 30, 2013; granted Aug. 7, 2013).

The BDR-01 radar covers only a 120 degree azimuth range. Three units are used at each site in order to achieve 360 degree coverage, for a total of 6 units in this STA. The power level set forth in the application, 398 W ERP, is the peak power for each of the transmitters.

These prototype units were not designed for the U.S. market. Thus, while the initial authority was granted for the 3870-3880 MHz frequency band, there is no Federal Communications Commission (“FCC”) allocation and service rules for permanent licensing of the system on that band. Accordingly, while BirdsVision seeks continued authority to permit to test its devices in that frequency band,² it also seeks herein authority under Part 5 to test its devices in the 3500-3555 MHz band, which is allocated in the United States on a secondary basis for radiolocation services. BirdsVision is seeking to operate the units on 30 MHz of bandwidth, as noted in the attached STA request.

² A request to extend the authority granted under FCC File No. 0736-EX-ST-2013 is being filed concurrently with this request.