

## **Application for New Experimental Special Temporary Authority**

BirdsVision Ltd. ("BirdsVision") is herein seeking Special Temporary Authority ("STA") under Part 5 of the Commission's rules to operate a set radiolocation antennas in the manner described herein. BirdsVision is seeking authority to operate at a singlerural locations outside of Los Angeles in order to test an avian detection and deterrence system at an operating wind energy project.

Wind turbine-generated electric power is of great interest today in the United States to reduce greenhouse gas emissions. A strong interest exists within the wind energy industry to minimize the detrimental effects of wind turbine operations on birds. The Los Angeles Department of Water and Power has sponsored a test of the BirdsVision WindSafeFlight™ avian detection and deterrence system at its PineTree wind energy facility in California to further develop this system.

BirdsVision believes that this system, though not yet broadly implemented in the U.S. market, 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. The subject system will be tested at the Pine Tree wind energy project in California to evaluate the effectiveness of the technology.

The BDR-01 radar covers only a 120 degree azimuth range. Three units will be used at the site in order to achieve 360 degree coverage around the C1 and C2 turbines. The power level set forth in the application, 398 W ERP, is the peak power for each of the transmitters.

BirdsVision seeks authority in the 3500-3650 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 total, as noted in the attached STA request and in the technical description that follows.



**Technical details of the radar:**

Frequency: between 3,500-3,650 MHZ

Output power / ERP (peak): 32W / 398W

Frequency Tolerance (+/-): 0.00010000%

Emission Designator: 30M0P0N

Modulating signal: None

**Information regarding FCC application:**

Class of station: FX

Nature of Service: Experimental

Manufacturer: BirdsVision

Model Number: BDR-1

No. of Units: 3

Is a directional antenna (other than radar) used: no

Width of beam in degrees at the half-power point and Orientation in Horizontal and Vertical Planes: See in Appendix I.

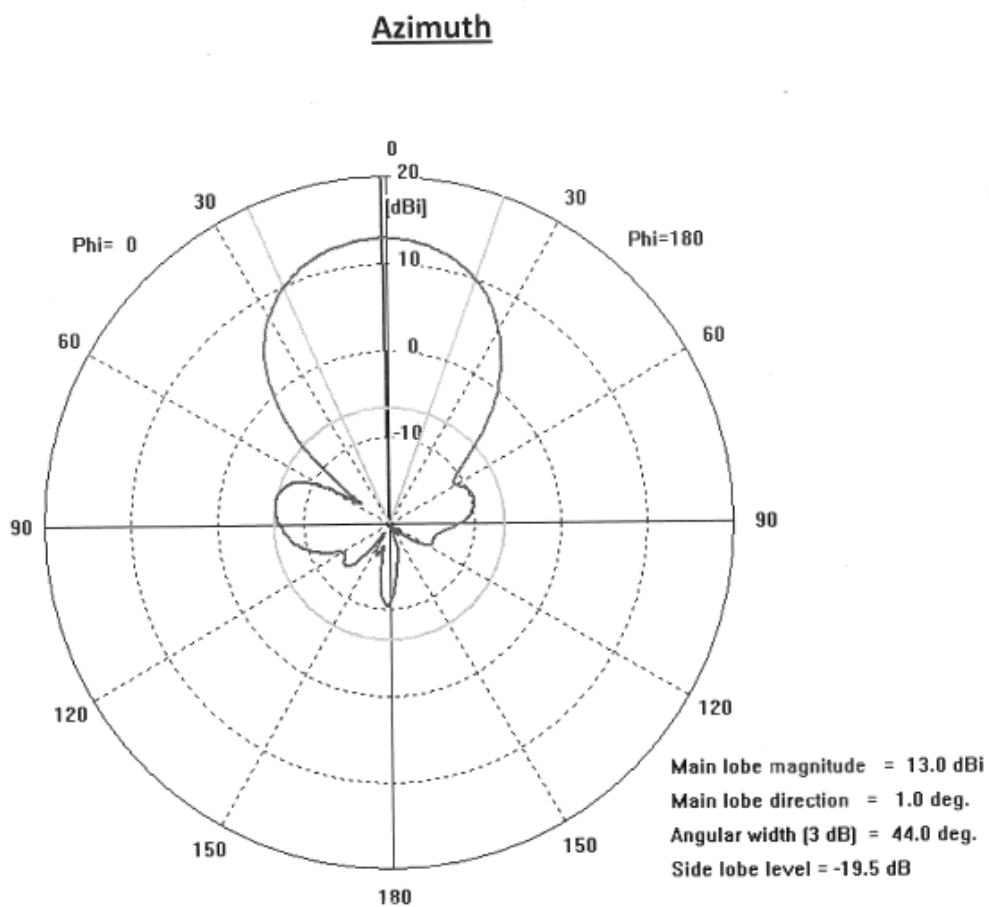
Will the antenna extend more than 6 meters above the ground? No, it will be approximately 5 meters above the ground.

Overall height above ground to tip of antenna in meters: 5.5

**BirdsVision Ltd.**

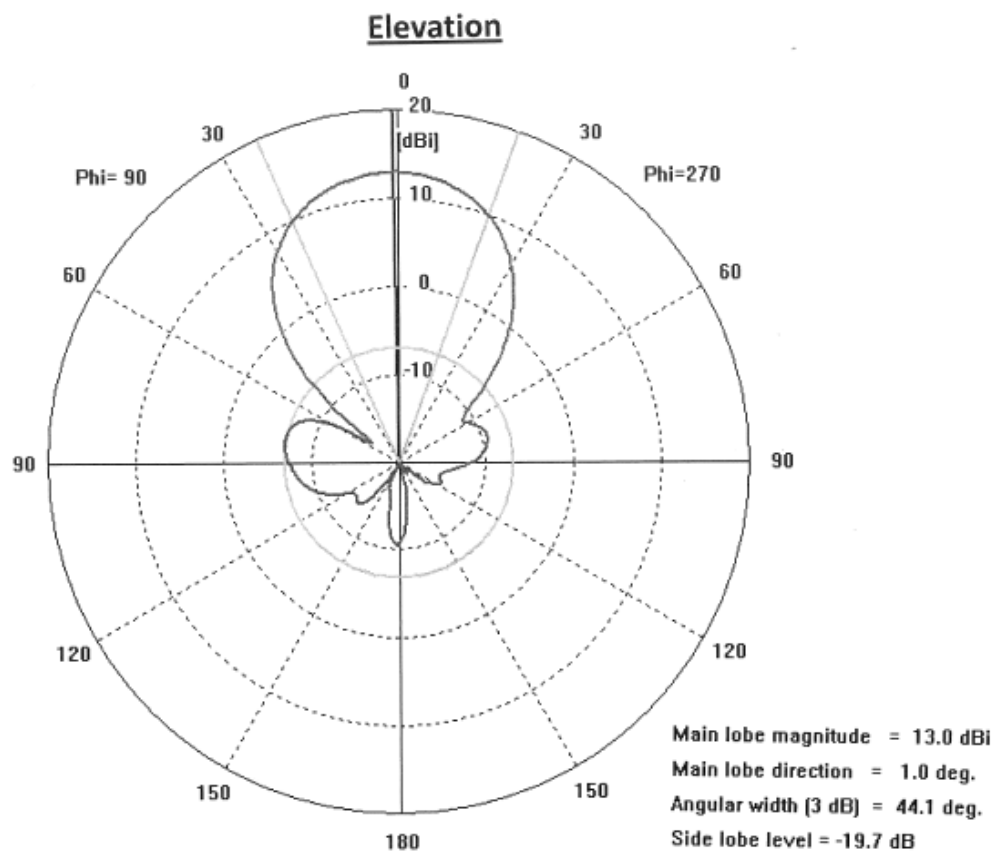
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**Appendix I: Width of beam in degrees and Orientation in Horizontal (Azimuth) and Vertical (Elevation) Planes**



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