

Exhibit A: Information in Response to Question 7:

The objective of the All Weather Radar (AWR) research and experimentation project is to design, fabricate, and demonstrate a experimental prototype radar system to assess adequacy of millimeter wave radar performance and phenomenology under adverse weather conditions such as that due to ground fog, mist, snow, and rain/sleet.

The experimental AWR system is a derivative of other Telephonics radar products that provide similar target information for ground, airborne and mobile users. The AWR is a millimeter wave (MMW) pulse radar with a narrow 1.0 degree beamwidth that is scanned over a narrow 20° by 15° field of view twice per second at a mean power of 1 watt, intended for short range operation to less than 2 km. It is anticipated that the experimental radar system may be activated and in use for only brief intervals of 5 minutes or less and will not be actively transmitting on a continuous basis. Radar return data will be processed by the backend signal processor/computer to extract the amplitude and the range data over the field of view and produce a two -dimensional radar image representation of the scatters in view.

The AWR radar is being developed in the laboratory facilities of Telephonics Corporation, located at Farmingdale, New York and nearby in Huntington, New York. The objectives of outside testing of the AWR radar system is to verify the radar parameters and performance under real world conditions of ground fog, mist, snow, and rain/sleet, as conditions permit.

The AWR system will be a key advancement to radar detection and imaging systems. The AWR radar will be capable of improved operations in adverse weather conditions when compared to other frequencies such as X band. While the theory is fundamental sound as a result of prior studies, the availability of new technologies, materials, and methods offers a unique opportunity for innovation.

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