

FCC Form 442 – Exhibit  
Question 7

- 7 The development and testing of Doppler Weather Radar Systems for commercial sales.
  - a. Complete program of Research and Experimentation (description of equipment and theory of operations) Continual development and improvement of X, C and S – band Meteorological Radar Systems.
  - b. To advance scientific research in the Meteorological Radar Technology.  
Develop advance-warning techniques for meteorological radar and related systems.  
Ultimately saving lives and population infrastructure.
  - c. Promise of contribution
    - a. Doppler Weather Radar
    - b. Bio-chemical detection
    - c. Simultaneous Dual Polarization
    - d. Phased Array
    - e. Advanced Algorithms for:
      - i. Meteorological research
      - ii. Precipitation estimation and measurement
      - iii. Hydrometeor classification
      - iv. Cloud Seeding
      - v. Tornado/Meso-cyclone detection
      - vi. Cloud Dynamics
      - vii. Weather balloon tracking
      - viii. Wind Shear