

Rockwell Collins, Inc.
Application for Experimental License
File No. 0582-EX-PL-2012

Exhibit 1: Description of Research and Experimentation

Rockwell Collins, Inc. respectfully requests the issuance of an experimental license using the equipment and operating parameters set forth in File No. 0582-EX-PL-2012.

Rockwell Collins provides advanced weather radar solutions for aircraft designed to enhance situational awareness with weather avoidance information to enable operators to provide safe, comfortable air transit. The requested authorization will enable Rockwell Collins to continue development of these solutions at its facilities in Cedar Rapids, IA.

In addition, Rockwell Collins seeks to leverage its existing aircraft weather radar technologies to develop new, low-cost ground-based weather radar solutions. Such systems could enhance safety and efficiency in areas where existing higher power weather radar systems do not provide complete coverage or where no weather radar solutions currently exist, such as remote oil, gas, or mining operations, secondary airfields, and sporting and other public events that have the potential to be impacted by local weather phenomena.

Rockwell Collins' experimental operations at and around its Cedar Rapids facilities will be limited to activities contemplated under Section 5.3 of the experimental radio service rules, including development of radio technique, testing and evaluation of equipment, demonstrations of equipment and technique (including demonstrations to prospective purchasers), and limited market studies.

Rockwell Collins respectfully requests an initial authorization for a period of 24 months in support of these efforts.