

**EXHIBIT 1  
DESCRIPTION OF MODIFICATION**

Rockwell Collins, Inc., a Raytheon Technologies company, proposes to modify WK2XMT by adding two (2) statewide mobile aircraft stations to permit aircraft-to-satellite experiments of its Iridium satellite data unit IRT-4000 using its HGA-4000 high-gain antenna and its LGA-4000 low-gain antenna. Collins is an authorized provider of Iridium's mobile satellite service (Certus) and manufactures equipment that is installed on commercial aircraft to allow in-cabin internet service. Collins must test this equipment prior to offering it for commercial sale.

Collins has already been performing part of this testing in Iowa under special temporary authorization WT9XAG, and now proposes to expand this testing to the states of Florida and Iowa using statewide licenses. Collins' flight test groups are based in these locations and each state has a diversity of climate conditions in which the antennas can be tested.

The antennas will be mounted on manned aircraft that will transmit to the Iridium satellite network (Call Sign S2110), and Collins will pay Iridium network fees. Only the one-way aircraft-to-satellite transmissions are the subject of this experiment. The aircrafts' maximum altitude will be 15,000 feet AGL.

**Iridium Satellite Constellation  
Call Sign S2110**



**1617.775-1626.5 MHz**

**Collins Test Aircraft  
15,000' AGL max**



The stop buzzers are:

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