

EXHIBIT # 1

(3/16/1999)

(a) A description of the nature of the research project being conducted.

A satellite lab is needed for the purposes of thoroughly testing the international maritime satellite (INMARSAT) aeronautical circuit and packet mode communications network using the modern TCP/IP protocol stack. Additional use includes hardware and software verification testing and integration with 777 validation facilities.

(b) A showing that the communications facilities requested are necessary for the research project involved.

INMARSAT satellite lab resources are very limited and this requires an expansion of satellite labs to multiple buildings to ease load times of lab usage. In addition, the 777 validation facilities needs to be fully integrated with the INMARSAT satellite lab.

(c) A showing that existing communications facilities are inadequate.

Our Business and Commuter Aviation Services (BCAS) labs schedule is frequently overloaded with other test groups which requires us to build an expansion lab at the Air Transport Systems (ATS) building. Currently, no satellite communications transceivers exist at ATS and there are no 777 integration facilities with a satellite communications lab.