

Date: 1/9/2007

Subject: Federal Communications Commission Application for New FORM 442;
QUESTION 6: STATEMENT OF RESEARCH PROJECT;
Exhibit justifying that authorization is to be used for providing
communications essential to a research project

To: FCC

From: Van Ruggles - Director, Quality Assurance, Garmin International

This experimental license application is for the purpose of development of a Traffic Advisory System (TAS) and Traffic Alert and Collision Avoidance System (TCAS I). In accordance with TSO-C147 and TSO-C118, 1030 MHz transmit and 1090 MHz receiver operations are used for interrogation by own aircraft and reception from Mode C and Mode S transponders from target aircraft. Development of this product requires experimental transmit and receive capability at the Garmin International facility at 1200 E 151st Street in Olathe, KS 66062 to test and prove product compliance and performance. This requires installation of a TCAS antenna on the roof of the Garmin International facility. The antenna is planned to be mounted on a mast whose height is lower than other structures on the facility roof such as air conditioner screening.