

Level 2

F-16 BLOCK 60 PROGRAM

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Exhibit 3
FCC Form 442
AN/APX-113 Description

Requirements and Objectives:

Timing: The flight test program for the F-16 Block 60 goes from Dec 03 until mid 2007. The objective of the flight test program is to verify and demonstrate functional operation of the F-16 Block 60's subsystems and aircraft performance.

This subsystem is an IFF Combined Interrogator-Transponder. The purpose of the Interrogator is to identify other friendly aircraft equipped with IFF transponders.

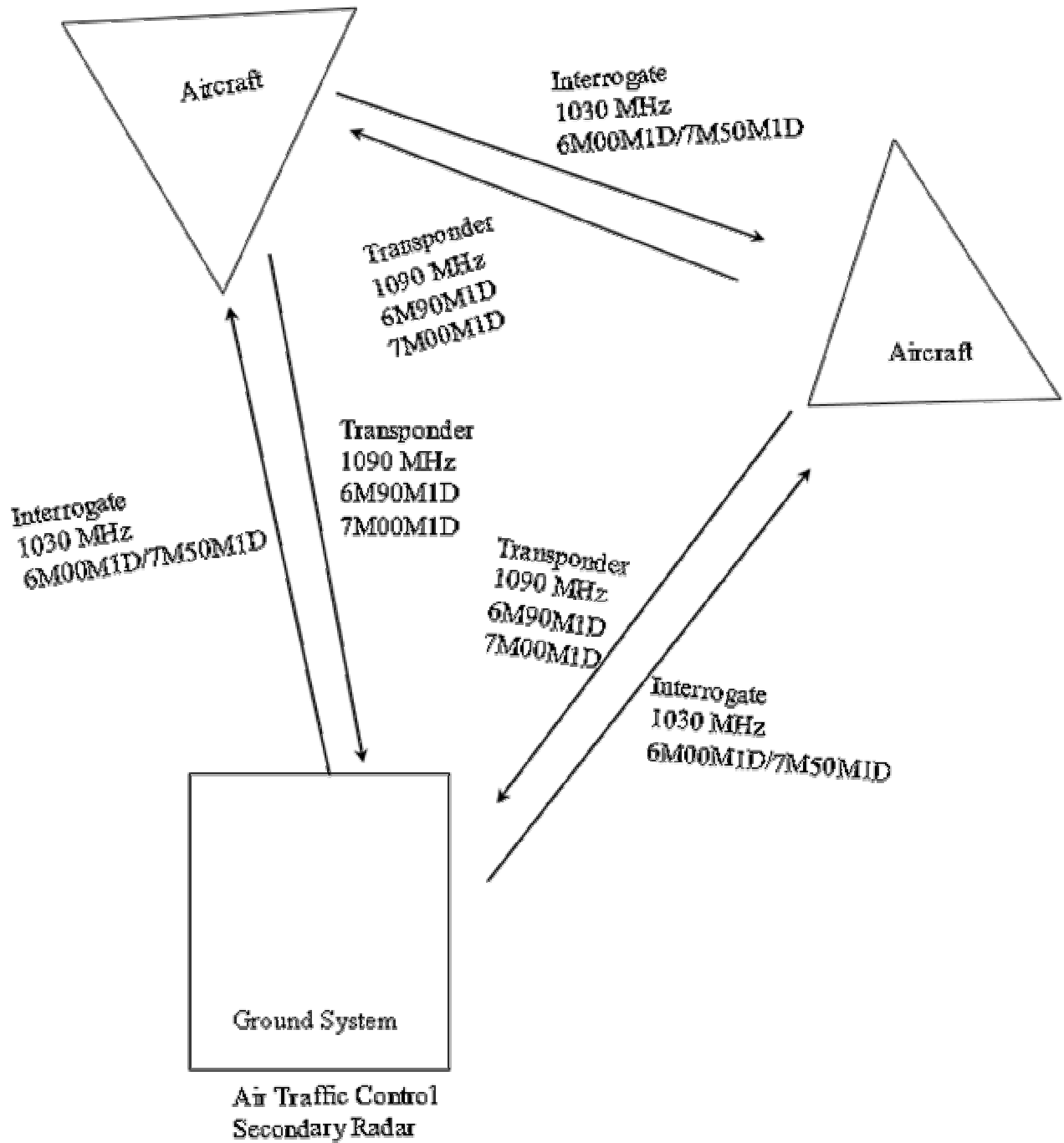
Locations:

This is a Foreign Military Sales version. The system will be periodically ground tested at the Lockheed Martin (Fort Worth) facility. Occasional engineering flight tests will be conducted in the vicinity of the Fort Worth facility. Additional flight tests will be conducted at areas described in Exhibit 2.

AN/APX-113(V)

Advanced IFF System

Version 50



AN/APX-113 (V) will operate with all military and commercial Mark X and Mark XII equipments of all services and civilian aviation. This system uses interrogator modes 1, 2, 3/A, C, and 4 and transponder modes 1, 2, 3/A, C, S, and 4. The transponder will respond to Level 1 Mode S interrogations.

Interrogation function transmits SIF (6M00M1D) and Mode 4 (7M50M1D) challenges on 1030 MHz, receives SIF & Mode 4 replies on 1090 MHz. Transponder function receives SIF (6M00M1D), Mode 4 (7M00M1D), and Mode S (6M90M1D) interrogations on 1030 MHz and responds on 1090 MHz.

Mode 4

Mode 4 does not run continuously. It is operator selectable (pilot or technician) and has to be enabled to reply (transpond) to off-board interrogations. However, mode 4 can be turned off and will not reply to interrogations. The operator has to command interrogations by pushing a button. A burst of less than 450 interrogations over a 2-second period is performed when the pilot initiates mode 4.

Mode 4 is used for ground based tests at Lockheed Martin Aeronautics (LM Aero) facility at Fort Worth, Texas. During the development phase of the program, there will be a limited number of flight operations using Mode 4 at the LM Aero facility in Fort Worth, TX. LM Aero will coordinate directly with local FAA officials on a case by case basis any time Mode 4 is used for ground or flight test operations.

Ground based IFF (SIF and Mode 4) test time at the LM Aero facility averages two to three hours per month (this includes transponder replies to interrogations). However, most transponder tests are conducted with the AN/APM-424 or similar test set directly connected to the AN/APX-113 Combined Interrogator/Transponder (CIT).

The operator commands mode 4 over-the-air interrogations, as needed. These are intermittent transmissions of short duration amounting to approximately 10% of total test time. This means mode 4 over-the-air transmissions at LM Aero are estimated to be 0.3 hours per month.

All interrogator and transponder modes, including mode 4, are selectable by the operator and can be enabled or disabled as needed.