

# Technical Description

## The Boeing Company

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By

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The Boeing Company

Global Spectrum Management MC: 1K-105

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### JUSTIFICATION:

**USAF/AFMC CONTRACT NO: N/A**

The Boeing Company is requesting a Special Temporary Authorization (STA) to support Project Countdown. The purpose of this procedure is to perform ground testing of the aircraft after modifications have been performed prior to flight tests at Yuma Proving Grounds.

### OBJECTIVE & TEST DESCRIPTION

This procedure includes turning on this radar altimeter, but will be limited to on-ground operations. Testing will include vehicle and system health checks, EMC testing, and SMI testing. This test unit will be to test aircraft susceptibility to commonly used air traffic control signals. Requesting as many frequencies as can be authorized to verify that the system will not experience problems in flight or on runway.

### OPERATION OVERVIEW

Manufacturer: Aeroflex  
Model: IFR 4000  
Frequencies: 72-78 MHz; 108-117.95 MHz; 108.1-111.95 MHz; 329.15-335 MHz; 118 MHz, 137 MHz, 156 MHz; 156 MHz, 165 MHz, 174 MHz  
Emissions: 6K00A2A, 20K90A9W, 300H00A1N, 25K00A3E, 25K00F3E  
Effective Radiated Output: **0.02 W**  
Station Class: **FAT1**

### STOP BUZZER POINT OF CONTACT:

Kristen Kokkeby, +1 (951) 258-8736

### LOCATIONS:

Boeing Facility, Mesa, AZ

33-28-15N; 111-43-43W

Radius: **1Km**