**ATC TRANSPONDER AND MODE S INSPECTION**

**14 CFR PART 43, APPENDIX F**

DATE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ W/O #\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TAIL #\_\_\_\_\_\_\_\_\_\_\_\_\_ S/N \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inspection(s) in Accordance With 14 CFR Part 43, Appendix F

**Transponder #1 Transponder #2**

Mfg. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mfg. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Model \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Model \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P/N \_\_\_\_\_\_\_\_\_\_\_\_\_\_S/N\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ P/N \_\_\_\_\_\_\_\_\_\_\_\_\_\_S/N\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Radio Reply Frequency 1087 to 1093 MHZ Radio Reply Frequency 1087 to 1093 MHZ

Mode S 1089 TO 1091 Mode S 1089 TO 1091

Peak Output Power > 125 and < 500 Watts Peak Output Power > and < 500 Watts

Mode S TX Power > 125 and < 500 Watts Mode S TX Power > 125 and < 500 Watts

SLS 0 db 1% < Reply Rate SLS 0 db 1% < Reply Rate

Reply Rate (-9db) 90% > Reply Reply Rate (-9db) 90% > Reply

Receiver Sensitivity - 66 to -77 dbm Receiver Sensitivity -66 to -77 dbm Mode 3/A Mode 3/A

Receiver Sensitivity - 66 to -77 dbm Receiver Sensitivity -66 to -77 dbm Mode C Mode C

Difference < 1 dbm Difference < 1 dbm

Receiver Sensitivity Receiver Sensitivity

Mode S -68 TO -77 dbm 90% Reply Mode S -68 TO -77 dbm 90% Reply

Mode S Diversity Transmission Channel Isolation Mode S Diversity Transmission Channel Isolation

[ ] > 20db (May require Antenna Isolation) [ ] > 20db (May require Antenna Isolation)

Mode S Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mode S Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] Correct Reply [ ] Correct Reply

Mode S UF=0 [ ] UF=16 [ ] UF=21 [ ] Mode S UF= 0 [ ] UF=16 [ ] UF= 21 [ ]

Formats UF=4 [ ] UF=20 [ ] UF=24 [ ] Formats UF= 4 [ ] UF=20 [ ] UF= 24 [ ]

UF=5 [ ] UF= 5 [ ]

UF=11 [ ] DF=11[ ] UF=11 [ ] DF=11 [ ]

Mode S Mode S

All Call PASS FAIL All Call PASS FAIL

Antennas Secure & In Good Condition Antennas Secure & In Good Condition

# \*SYSTEM PASSES \*SYSTEM PASSES

# 

Note #1: Peak Output Power Radiated Class 1A Min 125 Watts

Class 1B Min 70 Watts

Note #2: Receiver Sensitivity Includes Additional –3dbm Allowed for Radiated Signals

THE ABOVE INSPECTION(S) PERFORMED WITH THE TRANSPONDER(S) INSTALLED IN THE AIRCRAFT.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TESTED BY**

**\*NOTE: CHECK IN BOX INDICATES PASS, BLANK BOX TEST N/A**

**Tester – ID #\_\_\_\_\_\_\_**