

# **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

<b>Transponder #1</b>		<b>Transponder #2</b>	
Mfg. _____		Mfg. _____	
Model _____		Model _____	
P/N _____ S/N _____		P/N _____ S/N _____	
Radio Reply Frequency 1087 to 1093 MHZ <input type="checkbox"/>		Radio Reply Frequency 1087 to 1093 MHZ <input type="checkbox"/>	
Mode S 1089 TO 1091 <input type="checkbox"/>		Mode S 1089 TO 1091 <input type="checkbox"/>	
Peak Output Power > 125 and < 500 Watts <input type="checkbox"/>		Peak Output Power > and < 500 Watts <input type="checkbox"/>	
Mode S TX Power > 125 and < 500 Watts <input type="checkbox"/>		Mode S TX Power > 125 and < 500 Watts <input type="checkbox"/>	
SLS 0 db <input type="checkbox"/> 1% < Reply Rate		SLS 0 db <input type="checkbox"/> 1% < Reply Rate	
Reply Rate (-9db) <input type="checkbox"/> 90% > Reply		Reply Rate (-9db) <input type="checkbox"/> 90% > Reply	
Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode 3/A		Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode 3/A	
Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode C		Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode C	
Difference ≤ 1 dbm <input type="checkbox"/>		Difference ≤ 1 dbm <input type="checkbox"/>	
Receiver Sensitivity <input type="checkbox"/> Mode S -68 TO -77 dbm 90% Reply		Receiver Sensitivity <input type="checkbox"/> Mode S -68 TO -77 dbm 90% Reply	
Mode S Diversity Transmission Channel Isolation [ ] > 20db (May require Antenna Isolation)		Mode S Diversity Transmission Channel Isolation [ ] > 20db (May require Antenna Isolation)	
Mode S Address _____ [ ] Correct Reply		Mode S Address _____ [ ] Correct Reply	
Mode S UF=0 [ ] UF=16 [ ] UF=21 [ ] Formats UF=4 [ ] UF=20 [ ] UF=24 [ ] UF=5 [ ] UF=11 [ ] DF=11 [ ]		Mode S UF= 0 [ ] UF=16 [ ] UF= 21 [ ] Formats UF= 4 [ ] UF=20 [ ] UF= 24 [ ] UF= 5 [ ] UF=11 [ ] DF=11 [ ]	
Mode S All Call PASS <input type="checkbox"/> FAIL <input type="checkbox"/>		Mode S All Call PASS <input type="checkbox"/> FAIL <input type="checkbox"/>	
Antennas Secure & In Good Condition <input type="checkbox"/>		Antennas Secure & In Good Condition <input type="checkbox"/>	
*SYSTEM PASSES <input type="checkbox"/>		*SYSTEM PASSES <input type="checkbox"/>	

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 # \_\_\_\_\_

