

**RTCA Special Committee 186, Working Group 5**

**ADS-B UAT MOPS Maintenance**

**RTCA Headquarters, Washington DC**  
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**Proposed Changes to DO-282B for Diversity versus Non-Diversity**

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<b>Summary</b>
This Working Paper addresses expresses some thoughts on Diversity versus Non-Diversity and proposes changes for DO-260B.

## **Introduction:**

This Working Paper addresses expresses some thoughts on Diversity versus Non-Diversity and proposes changes for DO-260B.

Chris Moody and Warren Wilson think that §2.2.6.1.3 is unclear as currently shown with respect to what a Non-diversity transmit system should do. In fact we want it to behave the same as a diversity system with respect to payload transmit sequence.

## **Proposal:**

We propose to modify §2.2.6.1.3 as follows:

1. Strike the parenthetical from the section title
2. Strike all of the first sentence after "...proper mix of message payloads"

### **2.2.6.1.3 Message Transmission Cycle (~~Transmitter Diversity~~)**

A message transmission cycle of 16 seconds is defined to ensure a proper mix of message payloads ~~for installations that support ADS-B Message transmission from dual (diversity) antennas (§2.1)~~. When an aircraft is determined to be in the AIRBORNE condition (§2.2.4.5.2.5.1), transmissions **shall** occur through Top (T) (if so equipped) and Bottom (B) antennas each Message Transmission Cycle as shown in Figure 2-8.