

**RTCA Special Committee 186, Working Group 3
EUROCAE WG-51, SG-1**

ADS-B 1090ES MOPS Maintenance

Meeting #25

**Eurocontrol Headquarters, Brussels Belgium
17 – 20 February 2009**

**Report on Action Item 24-02 Regarding
Adding an Equipment Class A0* or A1* for Medium Power
and Non-Diversity on 1090ES**

**Dr. George Ligler
PMEI**

Summary
This Working Paper is in response to Action Item 24-02 and addresses reports on the results of a discussion with the FAA Surveillance and Broadcast Services Program Office on their business case involving the ARC Recommendation concerning non-diversity ADS-B equipage with "medium" power.

Change Item #12 in 1090-WP24-07R2 dealt with potentially adding an equipment class A0* and/or A1* with “medium” power and non-diversity. Action Item 24-02 indicates that: *“George Ligler will check with the FAA SBS Program Office to see if the Business Case was cancelled.”*

The FAA SBS Program Office was contacted and they confirmed that Business Case activity involving the ARC Recommendation concerning non-diversity ADS-B equipage with "medium" power has been deemed unnecessary. This conclusion was reached because the FAA was able to decide the degree to which such equipage might be used within the airspace defined in the NPRM on the basis of operational analysis of airspace requirements. For users who would only operate in portions of the NPRM airspace where such equipage would be permitted, there is a clear cost reduction.

The bottom line for RTCA SC-186 Working Group 3 and Eurocae WG-51, SG-1 is that the FAA has currently received opinions from its operational experts that non-diversity ADS-B installations with "medium" power could be permitted in at least a portion of the airspace specified by the Final Rule.

Therefore WG-3 is advised that definition of a new equipage class with these characteristics is a worthwhile effort.

It is recommended that we develop a non-diversity A1*, to ensure that all other requirements intended by the NPRM specifying class A1 as the minimum equipage class are met.