

**Updates to Advisory Circular (AC) 20-155,
SAE Documents to Support Aircraft Lightning Protection Certification,
dated 4/28/06.**

Change 1 (6/12/07):

During the early draft development of AC 20-155, the Federal Aviation Administration (FAA) had intended to recognize the fact that EUROCAE document ED-84, *Aircraft Lightning Environment and Related Test Waveforms*, was technically equivalent to SAE Aerospace Recommended Practice (ARP) document 5412 (same title), and that EUROCAE document ED-91, *Aircraft Lightning Zoning*, was technically equivalent to SAE ARP document 5414 (same title).

However, prior to the release of AC 20-155, it was recognized that SAE ARP 5412 and ARP 5414 had both been revised to ARP 5412A and 5414A, respectively, whereas the same revisions had not been incorporated into the corresponding EUROCAE documents. Because of this, the EUROCAE documents were no longer considered “technically” equivalent, and their references were subsequently removed from the initial release of AC 20-155.

EUROCAE has since updated documents ED-84 and ED-91, through amendment changes. The SAE AE-2 Lightning Committee has reviewed these amendment changes to EUROCAE documents ED-84 and ED-91 in light of the revisions that were made to SAE ARP 5412A and ARP 5414A.

The SAE AE2 committee has concluded that:

- EUROCAE ED-84, *Aircraft Lightning Environment and Related Test Waveforms*, when accompanied by Amendments 1, 2, and 3, is technically equivalent to SAE ARP 5412A, *Aircraft Lightning Environment and Related Test Waveforms*.
- EUROCAE ED-91, *Aircraft Lightning Zoning*, when accompanied by Amendments 1 and 2, is technically equivalent to SAE ARP 5414A, *Aircraft Lightning Zoning*.

This review was documented in an SAE AE-2 Lightning Committee Correspondence to the FAA dated June 8, 2007. The FAA concurs with this position, and agrees that the EUROCAE documents, with the applicable Amendments, are interchangeable with their corresponding SAE ARP.

You can get copies of EUROCAE Documents ED-84, including Amendments 1, 2, and 3; and ED-91 including Amendments 1, and 2 from EUROCAE, 17 Rue Hamelin, 75116 Paris, France. Telephone 33 (0) 1 4505 7188, fax 33 (0) 1 4505 7230, website www.eurocae.org.

This change will be incorporated into a future revision of AC 20-155.

---- End of Changes ----