



Concorde Battery Corporation

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TECHNICAL BULLETIN

Subject: RG-443 Ventilation Requirements

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The RG-443 valve regulated lead acid (VRLA) aircraft battery was designed with ventilation holes in the walls of the container to accommodate an overboard ventilation system. It is Concorde's recommendation that ventilation be installed on all lead-acid batteries.

This battery is a derivative of our Mil spec qualified batteries that have been tested to the gas emission requirements of Mil-Prf-8565 to demonstrate that the battery does not produce an explosive mixture of hydrogen even when normally charged from the aircraft buss with two cells shorted. Incidentally, Concorde's complete product line of commercial aircraft batteries is manufactured in accordance with this gas emission requirement.

If the aircraft is not equipped with a ventilation system, Concorde Battery Corporation does not recommend plugging the ventilation holes in the RG-443. The battery will emit hydrogen gas if abusively charged, as all VRLA batteries will, and the ventilation holes provide a pathway for this hydrogen to escape from the battery enclosure.

