



September 7, 2010

RE: Storage for Aero Design, Inc. main batteries

To whom it may concern:

Aero Design Inc. recommended inactive long term storage for a vented battery in a discharged state is 10 years. The following conditions for storing a battery for 10 years is: sealed packaging, temperature is between $68^{\circ}\text{F} \pm 27^{\circ}\text{F}$, humidity is $<70\%$, it is in a normal vertical upright position, and isolated from detrimental agents such as dirt, dust, dampness, or a corrosive atmosphere. The battery must undergo a regular check and meet the required pass/fail charge and discharge criteria after being removed from storage.

Charged batteries should be stored at a temperature of 68°F or less. OEM storage procedures recommend that scheduled maintenance for vented main cell batteries in a charged state be performed at least every 90 days. At the end of each 90-day period the batteries must undergo an electrolyte level check. After the electrolyte level check the battery can be returned to storage for another 90-day period. This process may be performed a maximum of two times (three 90 day intervals). If the battery has not been installed into an aircraft after the three 90 day intervals, the battery must undergo a regular check or general overhaul. Nickel cadmium batteries stored in a charged state will self-discharge at approximately $.25\%$ per day at 68°F (20°C). The temperature in the storage environment may affect the self-discharge rate.

Aero Design does not publish specific service intervals for our batteries. Per 8110.42, no additional Instructions for Continued Airworthiness (ICA) are required for the PMA part as long as the Type Certificate (TC) holder's ICA is valid with the PMA part. The TC and/or Production Certificate holder's ICA that are accepted by the FAA are valid for the applicable product(s) (see eligibility) with the Aero Design part installed.

Regards,

Walter Howard
General Manager