

current±talk

July 10, 2001

No. 129

Page 1 of 1

TO:

FROM: Marathon Marketing

SUBJECT: Extending The Maintenance Interval For Marathon Batteries

Extending the maintenance interval for the Marathon Batteries is not only possible, it is highly recommended by Marathon. The current standard has been set for "worst case" conditions and few aircraft operate under those conditions. The methodology is straightforward.

PROCEDURE:

Install a completely serviced battery and record the flight hours of the aircraft. At the time of the normal maintenance perform the normal maintenance requirements and record the flight hours. If the battery has successfully completed the capacity test, and has not had excessive water consumption it may be possible to extend the interval.

Determine the following:

* CC's used per flight hour = (Actual water consumption in cc's)/Maintenance Interval in hours

For example:

(for ATSP-44, assume 4 cc's used in 100 flight hours) CC used
= $4/100 = .04$ cc/hour

* CC's available = Maximum Allowable Water Consumption - Actual Water Consumption

For example:

$34 - 4 = 30$ cc's available

* New maintenance interval = CC's available/(CC's used per flight hour)

For example:

New Maintenance Interval = $30/.04 = 750$ hours.

Prudent operations would suggest extending the interval no more than 100%.

For example:

This interval would be 200 hours.

At the end of the new maintenance interval, the process can be repeated to determine if further improvements in the maintenance interval are possible. Under ideal circumstances we would have consumed all but 10% of the total available water each time we service the battery.

For additional information contact Tom Elkjer, Service Engineer, 254/741-5410.