

PROCEDURE FOR VERIFYING TIMERS

A. PURPOSE

This procedure provides instructions for checking the accuracy of timing devices.

B. REQUIRED APPARATUS

1. Timer, readable to 0.1 sec, having a verified accuracy within the tolerance listed in above test methods
- Alt. NIST Traceable Time signal radio (808-335-4363) may be used in place of a standard timer.

C. PROCEDURE

1. Hold the standard timer in one hand and the timer to be checked in the opposite hand.
2. Start the timers simultaneously by pressing the " Start" buttons at the same time.
3. Allow the timers to run at least two minutes, then stop the timers simultaneously. Record the time indicated by both timers.
4. Record the difference between the timers. Calculate and record the percent accuracy

$$\% \text{ Accuracy} = \frac{(A - B)}{B} \times 100$$

A= Lab timer (secs)

B = Standard timer (secs)

D. TOLERANCE

Timer is accurate to within 0.1 % when tested over a 60 minute interval.

