



McCAULEY.

September 16, 2003

Ms. Tealeye Cornejo
National Transportation Safety Board



Gardena, CA 92048

Subject: Examination of Governor
From Cessna 188A, N5638J

Dear Ms. Cornejo:

The following report concerns the inspection of the propeller governor from the above subject aircraft.

Subject governor was installed in a Cessna 188A aircraft, N5638J, which crashed on January 15, 2003, at Brawley, California. McCauley was requested to assist in the examination by examining the propeller governor for functionality, settings, output, and performance. The governor was inspected and tested on September 9, 2003 with the following in attendance:

Stan Faske - FAA FSDO
Tom Knopp - McCauley

- The governor was Model Number C290D3-K/T9, Serial Number 772897. The model number was correct for the Cessna 188A aircraft.
- The governor appeared undamaged and the drive gear rotated freely by hand (no obstructions).
- The governor was bench tested on a McCauley governor machine with the following findings:

	<u>S/N 772897</u>	<u>Mfg. Specifications</u>
Max. rpm	*2794 rpm	2850 ± 10 rpm
Pressure relief	305 psi	290 ± 20 psi
Pump capacity	5.5 qts./min.	5.0 qts./min. min.
Int. Leakage	12.5 qts./hr.	30 qts./hr. max.

*Lower than specified max rpm setting could be the result of on-aircraft adjustment to compensate for engine transfer bearing leakage, or aircraft tachometer error.

McCAULEY PROPELLER SYSTEMS
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Overall, the governor performance and function was satisfactory.

If you require additional information, please contact us.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Tom Knopp', is written over a thick black horizontal redaction bar.

Thomas M. Knopp
Chief Engineer - Propellers

:stp

cc: Stan Faske