Hatch Craig

From: Kramer Donald

Sent: Monday, June 16, 2014 8:56 AM

To: Hatch Craig

Subject: Materials Laboratory Factual Email Report - CEN14FA077 - Los Alamos, NN -

12/8/2013 - Aviat Aircraft A-C1-200

ACCIDENT INFORMATION

Location: Los Alamos, New Mexico

Date: December 8, 2013

Vehicle: Aviat Aircraft A-C1-200, N80MF

NTSB No.: CEN14FA077

Investigator: Craig Hatch, ASI-CEN

COMPONENTS EXAMINED

Two mating sections of a fractured flap cable as follows:

One section cut approximately 18 from the fracture;

Mating section cut approximately 39 inch from the fracture.

DETAILS OF THE EXAMINATION

The cable consisted of 7 strands with 19 wires per strand (7 x 19). The two fractured ends of the flap cable were cleaned using an alkaline detergent in a sonicator and examined using a stereomicroscope. The fractured ends were frayed. Some wires exhibited necking and other wires exhibited a slant fracture morphology. The observed features were consistent with a tensile overstress fracture under a high strain rate.

Donald Kramer, Ph.D. Materials Engineer