Docket No. SA-531

Exhibit No. 2-CC

NATIONAL TRANSPORTATION SAFETY BOARD

Washington, D.C.

Operations Group Chairman
Colgan 24 Hour Ice Protection Check

(2 Pages)

ADC 1 & 2..... TEST

EFIS ADC SOURCE switch..... NORM
Check ALT FAIL, IAS FAIL and IVSI FAIL flags are out on pilot's and co-pilot's PFD, and valid SAT is displayed on ED.
ADC test switch (at TEST 1).....HOLD
Check indications:
Barometric altimeter reading changes to 14,360 ft on pilot's PFD.
Altimeter barometric setting changes to 29.23 in Hg (990 hPa) on pilot's PFD.
Maximum operating airspeed (V_{MO}) is displayed as 284 KIAS on pilots' PFD.
The airspeed indicator displays 285 KIAS in red on pilot's PFD.
SAT indicated is -15°C and WTG2 FAIL appears on ED.
IAS, IAS MISMATCH and ALT appear on PFDs.
PITCH TRIM, ELEVATOR FEEL and AVIONICS caution lights illuminate.
Overspeed warning horn is activated after 5 seconds.

NOTE: TCAS FAIL may momentarily flash on PFDs and MFDs during the ADC functional test.

ADC test switch (at TEST 2).....HOLD
Check for indications equal to 'TEST 1', except SAT does not change and WTG1 FAIL advisory message appears on ED.

Ice Protection.....TEST

AIRFRAME DEICE PRESS indicator .....Check 18 ± 3 psi on each dial
AIRFRAME MODE SELECT switch.....FAST
During one complete cycle (60 seconds) execute the following checks:
Insure the WING advisory lights illuminate and go off sequentially in pairs, Commencing with the outboard pair and ending with the inboard pair, followed by the inboard TAIL then the outboard TAIL.
Check the deice PRESS indicator needles fluctuate in phase with the indicator lights.
Check that the left engine intake boot advisory light illuminates with the inboard tail advisory lights and the right engine intake boot advisory light illuminates with the Outboard tail advisory light in the TAIL boot sequence.
Check that the cycle recommences after 24 seconds dwell period then
AIRFRAME MODE SELECT-OFF
AIRFRAME MANUAL SELECT switch – Rotate counterclockwise through wing and tail positions and observe WING, TAIL, and nacelle intake advisory lights illuminate as selected.
PROPELLER:
PROP selector..... TEST
Check PROPS advisory lights illuminate individually and go out in sequence through one cycle. The normal operating (green arc) on the Oil Temperature Indicator changes to 65 to 107°C.

NOTE: In the event that the PROP selector is released early from the TEST position, wait 30 seconds before repeating test.

PROP selector.....OFF
Check the normal operating (green arc) on the Oil Temperature indicator changes to 0 to 107°C.
REF SPEEDS switch..... INCR
Check INCR REF SPEED appears on ED.
REF SPEEDS switch.....OFF
Check INCR REF SPEED disappears on ED.
ENGINE INTAKE DOORS:
ENGINE INTAKE DOORS switches..... PRESS
Check CLOSED advisory lights go out and after 35 to 40 seconds the OPEN/HTR advisory lights illuminate.
ENGINE INTAKE switches..... PUSH
Check CLOSED advisory lights turn on.

NOTE: The HTR advisory light may not turn on if SAT is greater than 15°C.

WINDSHIELD HEAT:
WINDSHIELD HEAT selector..... NORM
Check WSHLD CTRL caution light out.

NOTE: It will require a period of 5 minutes in NORM to confirm correct windshield heat operation.

STALL PROTECTION SYSTEM:
REF SPEEDS switch..... INCR
Check INCR REF SPEED appears on ED.
REF SPEEDS switch..... OFF
Check INCR REF SPEED disappears on ED.