

Resume'

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George E. Heath

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Birth date: 07 December 1950

Curriculum vitae relating to the profession of Aircraft Accident Investigator.

AVIATION EXPERIENCE

- ◆ **Aircraft Accident Investigator**, R. J. Waldron & Co. Ltd. , Richmond BC. September 1997 to Present. Aircraft Accident Investigation and failure analysis. Investigation of approximately 35 accidents and component failures annually.
- ◆ **Aircraft Accident Investigator**, Transportation Safety Board of Canada. From November 1985 to September 1997, I investigated 220 occurrences while assigned to the Western and Pacific regional offices. I was the investigator-in-charge of 123 of these 220 occurrences, was a team member of two major investigations, and a group chairman of a third major accident. I have been designated as the Accredited Representative to two major accidents in the USA, and participated fully in the National Transportation Safety Board (NTSB) investigations. During my employment with the TSB, I have acted on behalf of the NTSB in several investigations that involved aircraft components sent to Canada for examination and/or testing.
- ◆ **Aircraft Maintenance Engineer**, 1974 to 1985. Transport Canada Flight Operations in Edmonton, AB - Chief Engineer, two years. Aerotech Industries, Director of Maintenance, four years. Aircraft maintenance Engineer (and Apprentice) Trans Provincial Airlines, Northern Thunderbird Air, Kelowna Flightcraft.
- ◆ **Air Traffic Controller**, 1977 and 1978. Trained as an airport controller at Vancouver, Prince George, BC and Ottawa.

QUALIFICATIONS

- **Investigator**; Appointed by the Chairman of the Transportation Safety Board of Canada by the authority of the CTAISB act (1985-1997). Full member of the International Society of Air Safety Investigators.
- **Aircraft Maintenance Engineer Licence**, valid for categories M1 and M2 – all aircraft, and endorsed for DHC-8, Cessna Citation 550 and Lear Jet 36.
- **Commercial Pilot Licence**, Aeroplane - single engine land and sea. Night endorsement.

EDUCATION AND SPECIALIZED TRAINING

- Pacific Aircraft Maintenance Engineers Association Symposium and training update, January 2003.
- Aircraft Accident Investigation, New Technology. US Department of Transportation, Transportation Safety Institute, Oklahoma, OK (FAA) March 1997.
- Gas Turbine Engine Accident Investigation, University of Southern California, Los Angeles. October 1996.
- Human Factors Investigations, Transportation Safety Board of Canada. October 1994.
- Investigator Workshop, Transportation Safety Board of Canada. March 1994.
- Principles of Failure Analysis. Materials Engineering Institute, Ohio (Conducted at Ottawa). 1991
- Advanced Crash Survival Investigators School. Embry-Riddle Aeronautical University/Robertson Research, Phoenix Arizona, 1991.
- Crash Survival Investigators School. Embry-Riddle Aeronautical University/ Robertson Research, Phoenix Arizona, 1990.
- Advanced Supervisory Program. Transport Canada, Edmonton. 1991.
- Boeing 737 Familiarization Course. Canadian Airlines, Vancouver. 1990
- DeHavilland DHC-8, Full endorsement course. Transport Canada Flight Operations, Ottawa. 1989.
- Aerospatiale Astar (Eurocopter AS350) and Turbomeca Arriel engine- full endorsement course. Canadian Helicopters, Edmonton. 1989.
- Allison 250-C20/C20B Field Maintenance. Standard Aero, Winnipeg. 1988
- Airworthiness Manual Workshop, Transport Canada, Edmonton. 1988.
- Rotorcraft Safety and Accident Investigation, US Department of Transportation, Transportation Safety Institute, Dallas Texas (FAA) 1987.
- Bell 206B Field Maintenance endorsement course. Bell Textron, Dallas Texas. 1987
- Aircraft Accident Investigation - Techniques and Procedures, US Department of Transportation. Transportation Safety Institute. Oklahoma, 1986.
- Athabasca University, English. 1988
- Hot Air Balloons - Operation and Maintenance. Transportation Safety Board of Canada.
- Digital Logic - Avionics. Transport Canada, Ottawa.
- Beechcraft KingAir 100 endorsement course. Transport Canada, Ottawa.
- Beechcraft KingAir 90 endorsement course. Transport Canada, Ottawa.
- Pratt and Whitney PT6 Gas Turbine Engines. Transport Canada, Ottawa
- Pressurization and Environmental Systems. Transport Canada, Ottawa.
- DeHavilland DHC6-300 Twin Otter endorsement course. Transport Canada, Ottawa.
- High Altitude flight Aeromedical Training. Department of National Defense. Edmonton
- Electronics 110, 120,130. Open Learning Institute, BC.
- Commercial Pilot. Seneca College of Aviation. Prince George, BC.
- Meteorology. Atmospheric and Environment Service Canada.
- Air Traffic Control - VFR Airport Control (including IFR control fundamentals).
- Transport Canada -Air Traffic Services. Vancouver, Ottawa, Prince George.
- Private Pilot certification course. Ominica Flight Center, Terrace BC.
- Renfrew Collegiate Institute, graduated Science and Technology Program. 1969

Investigation Experience

Total Occurrences: Over 500 directly, plus assisted on about 200 others

Testimony History

Alberta Fatality Inquiry
Aerospatiale Gazelle Helicopter, 4 fatal
Edmonton Alberta
Accident 18 August 1990
Inquiry Fall 1991
Role: Investigator-in-Charge, factual and opinion evidence

British Columbia Coroners Inquest
DeHavilland Beaver, 5 fatal
Klemtu, British Columbia
Accident 26 July 1993
Inquiry Summer 1994
Role: Investigator-in-Charge, factual and opinion evidence

British Columbia Coroners Inquest
Douglas DC-3, 1 fatal
Vancouver Airport, British Columbia
Accident 19 August 1995
Inquiry September 1996
Role: Investigator-in-Charge, factual and opinion evidence

Federal Court of Canada,
Winnipeg Manitoba
Transport Canada V. Skyward Aviation.
April 11 2000
Testified regarding an R. J. Waldron & Co. investigation
and Technical Report for a Drag Chute failure.
Factual and Opinion Evidence

Tennessee Sixth Circuit Court
Nashville Tennessee
Crash of N17AE, Beech F90 24 January 2001 @ Nashville Tn. 4 fatalities
Estate of Michael Pickney , Lorraine et al and Inter-Cargo Insurance
v.
Dallas Airmotive, Stevens Aviation et al
Trial scheduled Sept 13 through Oct 08 2004
Expert witness testimony Sept. 13 & 14, 2004 - aircraft accident reconstructionist. Lead Investigator
for a team of 14 specialists.

Testimony History (cont)

Manitoba Provincial Court

Winnipeg Manitoba

Skyward Aviation V. Cessna Aircraft Co.

Expert witness testimony Sept. 2004 - aircraft accident investigation and reconstruction. Testified regarding the failure of the drag chute and aircraft stopping performance.

British Columbia Supreme Court

Vancouver, BC

Hayes Heli-Log Services V. Acro Aerospace, Sikorsky Aircraft Co. et al

S-61 IFWU failure

Expert witness testimony Sept 25, 2006 through October 3, 2006

Saskatchewan Court of Queen's Bench

Regina, Saskatchewan.

Gronnerud V. Yorkton Aircraft Services Ltd.

Engine Control Malfunction

Expert witness testimony May 07, 2007 through May 15, 2007, and 01 June 2007.

Depositions

McClain v. Industrial Helicopters et al

June 17, 1999 testimony at Houston, Texas

Crash of Bell 206 helicopter, failure of Rolls Royce 250- C20 engine

Kohli v. Idaho Forest Industries Inc., et al

Cause No. CV-98-107-M-DWM

October 21, 1999 at Seattle, Wa.

Ewen v. IFI and Hall

September 25, 2000

Vancouver, Missoula, Los Angeles

Clark v. Turbomeca et al

06 February 2003

Denver, Colorado

Estate of Michael Pickney , Lorraine et al v. Dallas Airmotive, Stevens Aviation et al

Crash of N17AE, Beech F90, January 2001

Deposition held in Philadelphia 28 June 2004

Jurisdiction, Nashville Tennessee

Depositions (cont)

Estate of John Christenson v. PenAir, Cessna, et al
Crash of Cessna Caravan
Dillingham Alaska, October 2001
Deposition date 24 May 2004

Villaruz, Goetzke et al v. Sikorsky Aircraft et al
Crash of S-61 N318Y
26 March, 2002 Dunsmuir, California
Deposition Date 27 May 2005

Knight v. Eurocopter, Turbomeca et al
Crash of AS315B – Lama N3978Y
Estes Park, CO, 30 July, 2002
Deposition Date 06 April 2006

Fisk v. Sikorsky, Rotair et al
Crash of Carson helicopters Sikorsky S-61 N81664
Kimble, Tenn. 23 March 2003
Deposition @ Portland Or. 09 June 2006

Lectures Presented

Western Region Aircraft Maintenance Engineers Association Annual Symposium,
Calgary Alberta April 1987 - 2 hour lecture,
Aircraft Accident Investigations Pertaining To Maintenance Errors.

Alberta Experimental Aircraft Association
Edmonton, Alberta November 1987 - 4 hour lecture,
Experimental Aircraft Accidents - Case Studies

Edmonton Pilot Training Consortium
Edmonton, Alberta November 1987 - 2 hour lecture,
Flight Training and Ab Initio Pilot Aircraft Accident Investigations

Western Canada Aerial Applicators National Conference
Red Deer, Alberta April 1988 - 2 hour lecture,
Avoiding the Major Causes of Aircraft Accidents

Abbotsford International Airshow and Trade Conference
Abbotsford, British Columbia April 1990 - 3 days of lectures and demonstrations,
Aircraft Accident Investigation in Canada

Edmonton Pilot Training Consortium

Edmonton, Alberta May 1991 - 2 hour lecture,

Flight Training and Ab Initio Pilot Aircraft Accident Investigations

Helicopter Association of Canada – Annual National Symposium

Vancouver British Columbia April 1998 - 1 hour presentation

Helicopter Accident Investigations in 1997

Canadian Aeronautical and Space Institute

University of British Columbia, Vancouver January 2002 - 4 hour presentation

Aircraft Accident Investigation – Process Overview and Case Studies

Pacific Aircraft Maintenance Engineers Association annual Symposium,

Vancouver British Columbia January 2003 - 2 hour lecture,

Aircraft Maintenance Errors and Accident Investigations.

Association of Flying Insurance Adjusters

Vancouver British Columbia March 2003 - 2 hour lecture

The Role of the Adjuster in the Investigation Process – Case Studies

Western Canada Commercial Aircraft Operators Seminar

Vancouver British Columbia June 4, 2004 - 1 hour presentation,

Accident Action Planning and Checklist

Pacific Aircraft Maintenance Engineers Association annual Symposium,

Vancouver British Columbia January 2005 - 2 hour lecture,

Anatomy of an Aircraft Accident – Nashville Kingair N17AE

Helicopter Association of Canada – 2005 National Symposium

Vancouver British Columbia April 2005 - 2 hour presentation

Behind the Scenes of Aircraft Accident Investigations

British Columbia Institute of Technology – Aviation Department

Vancouver Campus & Facility of R. J. Waldron & Co. Ltd.

November 28, 2005 – One Day Presentation

Forensic Engineering in Failure Analysis