

# National Transportation Safety Board Aviation Accident Final Report

Location: GULKANA, AK Accident Number: ANC85MA157

Date & Time: 08/20/1985, 0205 AKD Registration: N455JA

Aircraft: GATES LEARJET 24D Aircraft Damage: Destroyed

Defining Event: Injuries: 3 Fatal

Flight Conducted Under: Part 135: Air Taxi & Commuter - Non-scheduled

### **Analysis**

DURING A NIGHT ARRIVAL, THE FLT WAS ON AN INSTRUMENT APCH TO THE GULKANA ARPT WHEN RADIO CONTACT WITH THE ACFT WAS LOST. A SEARCH WAS INITIATED & THE WRECKAGE WAS FOUND 7.4 MI NORTH OF THE TERMINAL VOR ON THE 330 DEG RADIAL. THE INBOUND COURSE FOR THE VOR RWY 14 APCH WAS ON THE 315 DEG RADIAL. AN ON-SCENE EXAM REVEALED THE ACFT WAS TRACKING INBOUND WHEN IT COLLIDED WITH TREES, CRASHED & BURNED ABOUT 2.4 MI BEFORE REACHING THE FINAL APCH FIX. BOTH ENGS WERE OPERATING DURING IMPACT & BOTH HAD INJESTED CONSIDERABLE TREE MATERIAL. NO PREIMPACT MECHANICAL FAILURE WAS EVIDENT. THE CAPTAIN & 1ST OFFICER WERE CURRENTLY RESPONSIBLE FOR FLYING BOTH THE LEARJET & DHC-7 ACFT. THIS WAS THE CAPTAIN'S 1ST DAY OF WORK AFTER RETURNING FROM A VACATION TRIP TO HAWAII (APRX 1-1/2 WEEKS). THE 1ST OFFICER HAD AN ADEQUATE PERIOD FOR CREW REST PRIOR TO REPORTING FOR WORK; HOWEVER, HE HAD PREVIOUSLY BEEN WORKING A VARIED SCHEDULE. THE OPERATOR REPEATEDLY SHIFTED PLTS FROM 14 CFR 135 REST/DUTY REQUIREMENTS TO THOSE OF 14 CFR 121.

#### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

#### **Findings**

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: APPROACH - IAF TO FAF/OUTER MARKER (IFR)

#### **Findings**

- 1. (F) WEATHER CONDITION RAIN
- 2. (F) LIGHT CONDITION DARK NIGHT
- 3. (C) IFR PROCEDURE IMPROPER PILOT IN COMMAND
- 4. (C) REMEDIAL ACTION NOT ATTAINED COPILOT/SECOND PILOT
- 5. (F) FATIGUE(CIRCADIAN RHYTHM) COPILOT/SECOND PILOT
- 6. (F) FATIGUE(FLIGHT SCHEDULE) COMPANY/OPERATOR MANAGEMENT
- 7. (F) OBJECT TREE(S)
- 8. (C) MINIMUM DESCENT ALTITUDE NOT MAINTAINED

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Page 2 of 5 ANC85MA157

# **Factual Information**

#### **Pilot Information**

Certificate:	Airline Transport; Flight Instructor; Commercial	Age:	31, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Seat Occupied:	Left
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	05/21/1985
Occupational Pilot:	Last Flight Review or Equivalent:		
Flight Time:	5582 hours (Total, all aircraft), 801 hours (Total, this make and model), 3468 hours (Pilot In Command, all aircraft), 190 hours (Last 90 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

# Aircraft and Owner/Operator Information

Aircraft Make:	GATES LEARJET	Registration:	N455JA
Model/Series:	24D 24D	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	300
Landing Gear Type:	Retractable - Tricycle	Seats:	8
Date/Type of Last Inspection:	07/01/1985, AAIP	Certified Max Gross Wt.:	13500 lbs
Time Since Last Inspection:	86 Hours	Engines:	2 Turbo Jet
Airframe Total Time:	6645 Hours	Engine Manufacturer:	GE
ELT:	Installed, activated, aided in locating accident	Engine Model/Series:	CJ-610-6
Registered Owner:		Rated Power:	2950 lbs
Operator:	ERA HELICOPTERS, INC.	Operating Certificate(s) Held:	Commuter Air Carrier (135)
Operator Does Business As:	JET ALASKA	Operator Designator Code:	

Page 3 of 5 ANC85MA157

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	GKN, 1578 ft msl	Distance from Accident Site:	7 Nautical Miles
Observation Time:	0320 ADT	Direction from Accident Site:	137°
Lowest Cloud Condition:	Scattered / 1200 ft agl	Visibility	7 Miles
Lowest Ceiling:	Overcast / 9000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	11 knots / 12 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	ANCHORAGE, AK (ANC)	Type of Flight Plan Filed:	IFR
Destination:	(GKN)	Type of Clearance:	IFR
Departure Time:	0129 ADT	Type of Airspace:	Class E

### **Airport Information**

Airport:	GULKANA (GKN)	Runway Surface Type:	Asphalt
Airport Elevation:	1578 ft	Runway Surface Condition:	Wet
Runway Used:	14	IFR Approach:	VOR
Runway Length/Width:	4200 ft / 100 ft	VFR Approach/Landing:	None

# Wreckage and Impact Information

Crew Injuries:	2 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	1 Fatal	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 Fatal	Latitude, Longitude:	

### **Administrative Information**

Investigator In Charge (IIC):	MARC	STELLA	Report Date:
Additional Participating Persons:	KENT C	L HOFFMAN ADAMS HALL; GLENNAL	LEN, OF
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:publing@ntsb.gov">publing@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.ntsb.gov/pubdms/">http://dms.ntsb.gov/pubdms/</a> .		

Page 4 of 5 ANC85MA157

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

Page 5 of 5 ANC85MA157