



U.S. Department
of Transportation
**Federal Aviation
Administration**

THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15
DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM
FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Friday, December 19, 2014

National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

ACCIDENT #	0235	INDIVIDUAL#:	001	NAME:	MILLER, RAYMOND A.	MODE:	AVIATION
DATE OF ACCIDENT	10/03/2014	DATE RECEIVED	10/15/2014	PUTREFACTION:	Yes		
	N # 461MM	NTSB #	ERA15FA003	CAMI REF #	201400235001		
LOCATION OF ACCIDENT	Palm Coast, FL						
SPECIMENS	Brain, Heart, Kidney, Liver, Lung, Muscle						

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

>> NOT PERFORMED

CYANIDE: The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

>> NOT PERFORMED

VOLATILES: The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

>> 82 (mg/dL, mg/hg) Ethanol detected in Muscle
>> 82 (mg/dL, mg/hg) Ethanol detected in Liver
>> N-Butanol detected in Muscle
>> N-Butanol detected in Liver
>> N-Propanol detected in Muscle
>> N-Propanol detected in Liver

DRUGS: Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. Concentrations (ug/mL) at or above those in () can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (<http://jag.cami.jccbi.gov/toxicology/>).

>> Citalopram detected in Liver
>> Citalopram detected in Muscle
>> Diphenhydramine detected in Liver
>> Diphenhydramine detected in Muscle
>> N-Desmethylocitalopram detected in Liver
>> N-Desmethylocitalopram detected in Muscle

Digitally signed by RUSSELL J LEWIS Page 1 of 2
Date: 2015.01.06 14:26:22 -06'00'

Friday, December 19, 2014

CONTINUATION OF REF#: 201400235001 — MILLER, RAYMOND A.

A handwritten signature in black ink, appearing to read 'Russell J. Lewis', is written over a black rectangular redaction box.

Russell Lewis, Ph.D.
TC, FAA, Forensic Toxicology
Research Team CAMI

Digitally signed by RUSSELL J LEWIS
Date: 2015.01.06 14:26:05 -06'00'