



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

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FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

██████████
Oklahoma City, Oklahoma 73125

Tuesday, October 17, 2017

National Transportation Safety Board
4760 Oakland Street, Suite 500
Denver, CO 80239

ACCIDENT # 0181 INDIVIDUAL#: 001 NAME: ██████████ MODE: AVIATION
DATE OF ACCIDENT 07/27/2017 DATE RECEIVED 09/01/2017 PUTREFACTION: Yes
N # 701XL NTSB # CEN17FA288 CAMI REF # 201700181001
LOCATION OF ACCIDENT Laddonia, MO
SPECIMENS Bile, Blood, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, Urine

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.

> Blood unsuitable for analysis of CARBON MONOXIDE

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.

- > 10 (mg/dL, mg/hg) Ethanol detected in Urine
- > 36 (mg/dL, mg/hg) Ethanol detected in Blood
- > Propanol (N-) detected in Blood
- > Propanol (N-) detected in Urine

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/>).

- > 114.72 (ug/ml, ug/g) Acetaminophen detected in Urine
- > 0.007 (ug/mL, ug/g) Dihydrocodeine detected in Blood
- > 0.067 (ug/mL, ug/g) Dihydrocodeine detected in Urine
- > Hydrocodone NOT detected in Blood
- > 0.144 (ug/ml, ug/g) Hydrocodone detected in Urine
- > Hydromorphone NOT detected in Blood
- > 0.054 (ug/mL, ug/g) Hydromorphone detected in Urine

Tuesday, October 17, 2017

CONTINUATION OF REF#: 201700181001 — 

- > Oxazepam NOT detected in Blood
- > 0.36 (ug/ml, ug/g) Oxazepam detected in Urine
- > 0.086 (ug/ml, ug/g) Temazepam detected in Blood
- > 7.322 (ug/ml, ug/g) Temazepam detected in Urine
- > Salicylate detected in Urine
- > Sertraline detected in Urine
- > 1.23 (ug/mL, ug/g) Sertraline detected in Blood
- > Desmethylsertraline detected in Urine
- > 2.895 (ug/mL, ug/g) Desmethylsertraline detected in Blood

 c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS
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Russell Lewis, Ph.D., F-ABFT
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Bioaeronautical Sci. Research Lab
CAMI, FAA



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Mike Monroney
Aeronautical Center

Oklahoma City, Oklahoma 73125

Monday, September 11, 2017

National Transportation Safety Board
4760 Oakland Street, Suite 500
Denver, CO 80239

ACCIDENT #	0181	INDIVIDUAL#:	002	NAME:		MODE:	AVIATION
DATE OF ACCIDENT	07/27/2017			DATE RECEIVED	09/01/2017	PUTREFACTION:	Yes
	N # 701XL			NTSB #	CEN17FA288	CAMI REF #	201700181002
LOCATION OF ACCIDENT	Laddonia, MO						
SPECIMENS	Blood, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen						

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>> NOT PERFORMED

-Notes:

Samples from passengers are analyzed for CARBON MONOXIDE (COHb) only in cases of fire, and CYANIDE when COHb is equal to or greater than 10%, or upon special request, provided suitable blood samples were submitted.

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS
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