



Mike Monroney Aeronautical Center PO Box 25082 Oklahoma City, Oklahoma 73125

Administration

Monday, November 13, 2017

National Transportation Safety Board 45065 Riverside Parkway Ashburn, VA 20147

ACCIDENT # 0212 INDIVIDUAL#: 001 NAME: MODE: AVIATION

DATE OF ACCIDENT 10/07/2017 DATE RECEIVED 10/11/2017 PUTREFACTION: No

> N # 90866 NTSB # ERA18FA006 CAMI REF # 201700212001

LOCATION OF ACCIDENT Front Royal, VA

SPECIMENS Blood, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spinal Fluid, Spleen, Vitreous

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.

>> NO CARBON MONOXIDE detected in Blood

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.

>> NO ETHANOL detected in Vitreous

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), marihuana (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/).

>> Atorvastatin detected in Liver

>> Atorvastatin detected in Blood

Russell Lewis, Ph.D., F-ABFT Supervisor, Forensic Sciences Bioaeronautical Sci. Research Lab CAMI, FAA

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2017.11.17 14:13:10 -06'00'