

Mike Monroney Aeronautical Center P.O. Box 25082 Oklahoma City, Oklahoma 73125

Monday, June 16, 2014

National Transportation Safety Board 45065 Riverside Parkway Ashburn, VA 20147

 ACCIDENT #
 0074
 INDIVIDUAL#:
 001
 NAME:
 KIRK, DANIEL T.

 DATE OF ACCIDENT
 05/09/2014
 DATE RECEIVED
 05/15/2014

 N #
 3016Z
 NTSB #
 ERA14FA231

MODE: AVIATION PUTREFACTION: Yes CAMI REF # 201400074001

LOCATION OF ACCIDENT Ruther Glen, VA

SPECIMENS Bile, Blood, Brain, Heart, Kidney, Liver, Lung, Muscle, 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.

>> 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.

>> 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/).

- >> Fexofenadine detected in Liver
- >> Fexofenadine detected in Blood
- >> Valsartan detected in Liver
- >> Valsartan detected in Blood

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