

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

Monday, September 30, 2013

National Transportation Safety Board 45065 Riverside Parkway

Ashburn, VA 20147

 ACCIDENT #
 0154
 INDIVIDUAL#:
 001
 NAME:
 MAJOR,
 JAMES W. JR.

 DATE OF ACCIDENT
 08/03/2013
 DATE RECEIVED
 08/14/2013

 N #
 7641N
 NTSB #
 ERA13FA348

MODE: AVIATION PUTREFACTION: Yes CAMI REF # 201300154001

LOCATION OF ACCIDENT Conway, SC

SPECIMENS Blood, Brain, Gastric, 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.

>> SPECIMENS WERE UNSUITABLE FOR ANALYSIS

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/).

- >> Desmethylsertraline detected in Liver
- >> 0.531 (ug/mL, ug/g) Desmethylsertraline detected in Blood
- >> Sertraline detected in Liver
- >> 0.137 (ug/mL, ug/g) Sertraline detected in Blood

2013.10.01 14:04:46 -05'00'

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