

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

MODE: AVIATION PUTREFACTION: No

CAMI REF # 201200093001

Thursday, July 26, 2012

National Transportation Safety Board 4760 Oakland Street, Suite 500

Denver, CO 80239

 ACCIDENT #
 0093
 INDIVIDUAL#:
 001
 NAME:
 SHEETS, LUKE F.

 DATE OF ACCIDENT
 05/11/2012
 DATE RECEIVED
 05/23/2012

 N #
 9DM
 NTSB #
 CEN12FA290

LOCATION OF ACCIDENT Chanute, KS

SPECIMENS Blood, Blood (Aortic), Brain, Kidney, Liver, Lung, 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.

>> 12 (%) CARBON MONOXIDE detected in Blood

CYANIDE: The presence of cyanide is screened by Conway Diffusion. Positive 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.

>> NO CYANIDE detected in Blood

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 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), 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/).

>> NO DRUGS listed above detected in Urine

Dennis V. Canfield, Ph. D. Manager, Bioaeronautical Sci. Research Lab CAMI