U.S. Department of Transportation
Federal Aviation Administration

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

Tuesday, November 22, 2011

National Transportation Safety Board
Atlanta Federal Ctr, Rm 3M25, 60 Forsyth Street, SW
Atlanta, GA 30303

ACCIDENT # 0246 **INDIVIDUAL#:** 001 **NAME:** CASTLEBERRY, MICHAEL W. **MODE:** AVIATION
DATE OF ACCIDENT 09/24/2011 **DATE RECEIVED** 10/14/2011 **PUTREFACTION:** No
N # 3101N **NTSB #** ERA11LA503 **CAMI REF #** 201100246001
LOCATION OF ACCIDENT Cordele, GA
SPECIMENS Blood, Serum

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. 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.

>> NOT PERFORMED

VOLATILES: The ethanol concentration is determined by Radiative Energy Attenuation at a cut off of 20 mg/dl.

>> NO ETHANOL detected in Serum

DRUGS: Immunoassay and/or chromatography are used to screen for drugs. GC/Mass Spec, HPLC/Mass Spec, or GC/FTIR is used to confirm most positive results. 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). For comprehensive information concerning all drugs detected by the laboratory, see the CAMI Drug Information Web Site http://jag.cami.jccbi.gov/toxicology/.

>> NOT PERFORMED

-Notes:
Insufficient amounts of samples were submitted to perform complete analyses.

[redacted]

Date: 2011.11.28 12:56:08 -06'00'

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