



Federal Aviation Administration

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

Monday, August 23, 2004

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

ACCIDENT # 0157

07/13/2004

INDIVIDUAL#: 001 NAME: GIARD, ROBERT A.

MODE: AVIATION

DATE OF ACCIDENT

DATE RECEIVED 07/16/2004

PUTREFACTION: No

N# 503MT

NTSB # CHI04MA182

CAMI REF # 200400157001

LOCATION OF ACCIDENT

NEWBERRY, SC

SPECIMENS

Bile, Blood, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off. Where possible, positive COHb values are confirmed by GC/TCD.

>> NOT PERFORMED

CYANIDE: The presence of cyanide is screened by Conway Diffusion. Positive cyanides are quantitated using spectrophotometry. The limit of quantitation of cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3ug/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 Muscle
- >> NO ETHANOL detected in Brain

DRUGS: Immunoassay and chromatography are used to screen for legal and illegal drugs which include: amphetamine (0.010), opiales (0.010), marihuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), antihistamines (0.020), meprobamate (0.100), methagualone (0.100), and nicotine (0.050). The values in () are the threshold values in ug/mL used to report positive results. Values below this concentration are normally reported as not detected. GC/Mass Spec, HPLC/Mass Spec, or GC/FTIR, is used to confirm most positive results.

>> NO DRUGS LISTED ABOVE DETECTED in Liver

Dennis Canfield, PhD. Manager, Bioaeronautical

Sciences Research Laboratory

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