



U.S. Department
of Transportation
**Federal Aviation
Administration**

Mike Monroney
Aeronautical Center

P O Box 25082
Oklahoma City, Oklahoma 73125

Wednesday, March 13, 2013

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

ACCIDENT # 0295 INDIVIDUAL#: 001 NAME: DEAL, VIRGIL T. MODE: AVIATION
DATE OF ACCIDENT 12/16/2012 DATE RECEIVED 12/28/2012 PUTREFACTION: No
N # 5714W NTSB # ERA13FA088 CAMI REF # 201200295001
LOCATION OF ACCIDENT Parkton, NC
SPECIMENS Heart, Kidney, Liver, Lung, Muscle, 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.

>> 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 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), marijuana (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/>).

- >> Chlorpheniramine detected in Muscle
- >> Chlorpheniramine detected in Urine
- >> Ephedrine detected in Urine
- >> Metoprolol detected in Muscle
- >> Oxymetazoline detected in Urine
- >> Pseudoephedrine detected in Urine
- >> Pseudoephedrine detected in Muscle



Wednesday, March 13, 2013

CONTINUATION OF REF#: 201200295001 - DEAL, VIRGIL T.



2013.03.13 17:01:27 -05'00'

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



T O X I C O L O G Y R E P O R T

Office of the Chief Medical Examiner
Raleigh, NC 27699-3025

Toxicology Folder: T201209534
Case Folder: F201211001
Date of Report: 31-dec-2012
Page: 1

Christy Hileman
FAA-AAM-630
[Redacted]
Oklahoma City, OK [Redacted]

DECEDENT: Virgil Thomas Deal, Jr.

Status of Report: Approved
Report Electronically Approved By: Sandra Bishop-Freeman, PhD

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SPECIMENS received from Lauren C. Scott on 18-dec-2012

S120023963: Liver CONDITION: Postmortem
 SOURCE: Liver OBTAINED: 18-dec-2012

S120023964: Spleen CONDITION: Postmortem
 SOURCE: Spleen OBTAINED: 18-dec-2012

Carbon Monoxide----- Less than 5 % SAT
12/31/2012

S120023965: Muscle CONDITION: Postmortem
 SOURCE: Muscle OBTAINED: 18-dec-2012

S120023966: 3.0 ml Urine CONDITION: Postmortem

SOURCE: Urinary Bladder

OBTAINED: 18-dec-2012

Ethanol ----- None Detected
12/31/2012

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* * * E N D O F R E P O R T * * *

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