



Mike Monroney  
Aeronautical Center

Oklahoma City, Oklahoma 73125

Friday, May 27, 2016

Federal Way, WA 98003

|                      |                                                                   |               |            |               |              |       |          |
|----------------------|-------------------------------------------------------------------|---------------|------------|---------------|--------------|-------|----------|
| ACCIDENT #           | 0051                                                              | INDIVIDUAL#:  | 001        | NAME:         | [REDACTED]   | MODE: | AVIATION |
| DATE OF ACCIDENT     | 03/21/2016                                                        | DATE RECEIVED | 03/30/2016 | PUTREFACTION: | No           |       |          |
|                      | N # 670EM                                                         | NTSB #        | WPR16FA086 | CAMI REF #    | 201600051001 |       |          |
| LOCATION OF ACCIDENT | Hawthorne, CA                                                     |               |            |               |              |       |          |
| SPECIMENS            | Bile, Blood (Cavity), Brain, Gastric, Kidney, Liver, Lung, Spleen |               |            |               |              |       |          |

# 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.

>> NO CARBON MONOXIDE detected in Blood (Cavity)

**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 Blood (Cavity)

**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://jaq.cami.iccbbi.gov/toxicology/>).

>> Anhydroecgonine Methyl Ester detected in Blood (Cavity)  
>> 0.029 (ug/ml, ug/g) Benzoylecgonine detected in Blood (Cavity)  
>> Cocaine detected in Blood (Cavity)  
>> Diphenhydramine detected in Liver  
>> 0.326 (ug/ml, ug/g) Diphenhydramine detected in Blood (Cavity)

c=US, o=U.S. Government, ou=AMC, ou=AMC,  
cn=RUSSELL J LEWIS  
2016.06.01 09:41:54 -05'00'

Russell Lewis, Ph.D.  
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Research Team CAMI