



THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15 DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM FAA NTSB COUNSEL

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Tuesday, June 25, 2013

National Transportation Safety Board
4760 Oakland Street, Suite 500
Denver, CO 80239

ACCIDENT # 0085 **INDIVIDUAL#:** 001 **NAME:** ARNOLD, MICHAEL D. **MODE:** AVIATION
DATE OF ACCIDENT 05/18/2013 **DATE RECEIVED** 05/21/2013 **PUTREFACTION:** No
 N # 16NM **NTSB #** CEN13LA299 **CAMI REF #** 201300085001
LOCATION OF ACCIDENT Aztec, NM
SPECIMENS Blood (Heart), Gastric, Kidney, Liver, Lung, Muscle, Spleen, Unknown, Urine

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT
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CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

>> 14 (%) CARBON MONOXIDE detected in Blood (Heart)

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.

>> NO CYANIDE detected in Blood (Heart)

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/>).

>> Diphenhydramine detected in Urine

>> Diphenhydramine NOT detected in Blood (Heart)

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