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FAA NTSB COUNSEL



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

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Aeronautical Center

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Wednesday, February 11, 2009

National Transportation Safety Board
Du Page Airport, 31 West 775 North Avenue
West Chicago, IL 60185

ACCIDENT # 0004 INDIVIDUAL#: 001 NAME: CONNELL, MICHAEL L. MODE: AVIATION
DATE OF ACCIDENT 12/19/2008 DATE RECEIVED 01/07/2009 PUTREFACTION: Yes
N # 9299N NTSB # CEN09FA099 CAMI REF # 200900004001
LOCATION OF ACCIDENT NORTH CANTON, OH
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 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 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 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.

>> 79 (mg/dL, mg/hg) ETHANOL detected in Muscle
>> 16 (mg/dL, mg/hg) ETHANOL detected in Liver
>> NO ETHANOL detected in Brain

DRUGS: Immunoassay and chromatography are used to screen for legal and illegal drugs which include: amphetamine (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), antihistamines (0.020), meprobamate (0.100), methaqualone (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.

>> CHLORPHENIRAMINE detected in Blood
>> CHLORPHENIRAMINE detected in Liver
>> CHLORPHENIRAMINE detected in Gastric
>> CHLORPHENIRAMINE detected in Heart
>> PSEUDOEPHEDRINE detected in Liver

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CONTINUATION OF REF#: 200900004001 - CONNELL, MICHAEL L.

Date: 2009.02.11 11:07:50 -06'00'

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