

**Attachment 16**

**to Operational Factors / Human Performance Group Chairman's Factual  
Report**

**DCA00MA005**



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

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

Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

Friday, March 17, 2000

National Transportation Safety Board  
Du Page Airport  
West Chicago, IL 60185

ACCIDENT # 0293 VICTIM # 001 NAME: BELLEGARRIGUE, STEPHANIE MODE: AVIATION ACCIDENT  
DATE OF ACCIDENT 10/25/1999 DATE RECEIVED 11/24/1999 PUTREFACTION: No  
LOCATION OF ACCIDENT ABERDEEN, SD CAM# REF # 199900293001  
SPECIMENS Body Tissue, Muscle

**FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT**

**CARBON MONOXIDE:** The carboxyhemoglobin saturation was determined by spectrophotometry with a 10% cut off.

>> NOT PERFORMED.

**CYANIDE:** The presence of cyanide was 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 were determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanols were confirmed by Radiative Energy Attenuation.

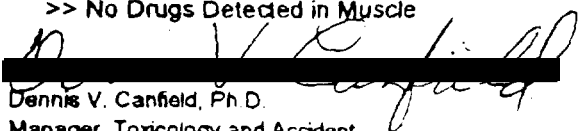
>> 41 (mg/dL, mg/hg) ETHANOL detected in Muscle  
>> 1 (mg/dL, mg/hg) ACETALDEHYDE detected in Muscle  
>> NO ETHANOL detected in Body Tissue

-Notes:

-The ethanol found in this case may potentially be from postmortem ethanol formation and not from the ingestion of ethanol.

**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.

>> No Drugs Detected in Muscle

  
Dennis V. Canfield, Ph.D.  
Manager, Toxicology and Accident  
Research Laboratory

MAR 24 2000

Page 1 of 1

FACTUAL REPORT

ATTACHMENT 16-1

TOTAL P.02  
DCA00MA005