DOCKET NO.: SA-519
EXHIBIT NO. 14F

NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C.

HUMAN PERFORMANCE GROUP CHAIRMAN'S FACTUAL REPORT ATTACHMENT 5: FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

American Airlines flight 1420
Little Rock, Arkansas
June 1, 1999

DCA99MA060

U.S. Department of Transportation
Federal Aviation Administration

Mike Monroney Aeronautical Center
P.O. Box 25082
Oklahoma City, Oklahoma 73125

Friday, June 11, 1999

National Transportation Safety Board
624 Six Flags Drive, Suite 150
Arlington, TX 76011

CAMI CASE 9900116001 NAME BUSCHMANN, RICHARD W. PUTREFACTION: No

DATE OF ACCIDENT 6/1/99 DATE RECEIVED 6/8/99

LOCATION OF ACCIDENT LITTLE ROCK, AR

SPECIMENS Bile, Blood, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, Urine, Vitreous

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

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

>> NO CARBON MONOXIDE detected in Blood

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.

>> NO CYANIDE detected in Blood

VOLATILES: The volatile concentrations were determined by headspace gas chromatography at a cut off of 10 mg/dL. All positive ethanols were confirmed by Radiative Energy Attenuation.

>> NO ETHANOL detected in Urine

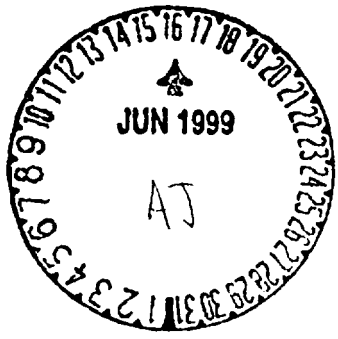
DRUGS: Immunoassay and chromatography are used to screen for legal and illegal drugs which include: amphetamine (0.010), opiates (0.010), marihuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), antihistamines (0.020), meprobamate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

[redacted]

JUN 11 1999

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



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