

**DOCKET NO.: SA-517  
EXHIBIT NO. 2G**

**NATIONAL TRANSPORTATION SAFETY BOARD  
WASHINGTON, D.C.**

**FORENSIC TOXICOLOGY REPORT**

**(5 pages)**

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



U.S. Department  
of Transportation  
Federal Aviation  
Administration

Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

September 09, 1997

National Transportation Safety Board  
1515 W. 190th St., Suite 555  
Gardena, CA 90248

CASE#: 9700196001 NAME: PARK, YONG, C. Putrefied: Yes  
DATE OF INCIDENT : 080597 DATE RECEIVED: 081997  
LOCATION OF ACCIDENT: AGANA, GU  
SPECIMENS RECEIVED : Blood, Vitreous fluid, Urine, Bile, Liver, Lung  
Gastric Contents, Kidney, Spleen, Muscle, Brain, Heart  
, Tablets or Capsules

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FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

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

--> NO Carboxyhemoglobin 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 cutoff of 10 mg/dl. All positive ethanols were confirmed by Radiative Energy Attenuation.

--> 12.000 (mg/dL, mg/hg) Ethanol detected in Blood

--> NO Ethanol detected in Vitreous fluid

--> 12.000 (mg/dL, mg/hg) Ethanol detected in Urine

--> 23.000 (mg/dL, mg/hg) Acetaldehyde detected in Blood

--> 1.000 (mg/dL, mg/hg) Acetaldehyde detected in Urine

NOTE: The ethanol found in this case is most likely from postmortem ethanol production.

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*Dennis V. Confield*

*Toxicology Page 1 of 5*

CONTINUATION OF CASE#: 9700196001 NAME: PARK, YONG C.

DRUGS: Immunoassay and chromatography are used to screen for abused drugs such as amphetamine(0.010), opiates(0.010), marihuana(0.001), cocaine(0.020), phencylidine(0.002), benzodiazepines(0.030), barbiturates(0.060), and other drugs such as 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, or GC/FTIR, is used to confirm most positive results.

- > NO drugs were detected in Urine.
- > Melatonin was detected in a speckled white tablet
- > NO drugs were detected in the remaining tablets tested.

*Dennis V. Canfield* SEP 9 1997

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

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AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM FAA OR NTSB COUNSEL.

U.S. Department of Transportation  
Federal Aviation Administration

Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

September 12, 1997

National Transportation Safety Board  
1515 W. 190th St., Suite 555  
Gardena, CA 90248

CASE#: 9700196002 NAME: SONG, KYONG H. Putrefied: Yes  
DATE OF INCIDENT : 080597 DATE RECEIVED: 081997  
LOCATION OF ACCIDENT: AGANA, GU  
SPECIMENS RECEIVED : Blood, Bile, Gastric Contents, Liver, Lung  
Kidney, Spleen, Muscle, Brain, Heart

FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

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

--> NO Carboxyhemoglobin 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 cutoff of 10 mg/dl. All positive ethanols were confirmed by Radiative Energy Attenuation.

- > 83.000 (mg/dL, mg/hg) Ethanol detected in Blood
- > 49.000 (mg/dL, mg/hg) Ethanol detected in Muscle
- > 90.000 (mg/dL, mg/hg) Ethanol detected in Brain
- > 14.000 (mg/dL, mg/hg) Acetaldehyde detected in Brain
- > 3.000 (mg/dL, mg/hg) Acetaldehyde detected in Muscle
- > 42.000 (mg/dL, mg/hg) Acetaldehyde detected in Blood
- > 1.000 (mg/dL, mg/hg) N-Butanol detected in Blood

DRUGS: Immunoassay and chromatography are used to screen for abused drugs such as amphetamine(0.010), opiates(0.010), marijuana(0.001), cocaine(0.020), phencylidine(0.002), benzodiazepines(0.030), barbiturates(0.060), and other drugs such as 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, or GC/FTIR, is used to confirm most positive results.

--> NO Drugs detected in Blood

*Dennis V. Canfield* SEP 17 1997  
Dennis V. Canfield, Ph.D.  
Manager Toxicology and Accident  
Research Laboratory

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COUNSEL.



U.S. Department  
of Transportation

Federal Aviation  
Administration

National Transportation Safety Board  
1515 W. 190th St., Suite 555  
Gardena, CA 90248

Mike Monroney  
Aeronautical Center

September 08, 1997

P.O. Box 25082  
Oklahoma City, Oklahoma

CASE#: 9700196003 NAME: NAM, SOOK H. Putrefied: Yes  
DATE OF INCIDENT : 080597 DATE RECEIVED: 081997  
LOCATION OF ACCIDENT: AGANA, GU  
SPECIMENS RECEIVED : Blood, Gastric Contents, Liver, Lung, Kidney  
Spleen, Muscle, Brain, Heart

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FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

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**CARBON MONOXIDE:**

Carbon monoxide analysis was not performed due to a lack of suitable specimen.

**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 cutoff of 10 mg/dl. All positive ethanols were confirmed by Radiative Energy Attenuation.

--> 35.000 (mg/dL, mg/hg) Ethanol detected in Blood  
--> 37.000 (mg/dL, mg/hg) Ethanol detected in Brain  
--> 110.000 (mg/dL, mg/hg) Ethanol detected in Muscle  
--> 1.000 (mg/dL, mg/hg) Acetaldehyde detected in Brain  
--> 4.000 (mg/dL, mg/hg) Acetaldehyde detected in Muscle  
--> 42.000 (mg/dL, mg/hg) Acetaldehyde detected in Blood  
--> 21.000 (mg/dL, mg/hg) N-Propanol detected in Blood  
--> 2.000 (mg/dL, mg/hg) N-Butanol detected in Blood

NOTE: The ethanol found in this case may be the result of postmortem ethanol production.

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*Senn V. Cafield*

SEP 10 1997

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CONTINUATION OF CASE#: 9700196003 NAME: NAM, SOOK H.

DRUGS: Immunoassay and chromatography are used to screen for abuse drugs such as amphetamine(0.010), opiates(0.010), marihuana(0.001) cocaine(0.020), phencylidine(0.002), benzodiazepines(0.030), barbiturates(0.060), and other drugs such as 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/l used to report positive results. Values below this concentration are normally reported as not detected. GC/Mass Spec, or GC/FTIR, is used to confirm most positive results --> NO Drugs detected in blood.

*Dennis V. Canfield* SEP 10 1997

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

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