

Gulfstream Aerospace Corporation G-IV
Bedford, Massachusetts
May 31, 2014
ERA14MA271

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

ATTACHMENT 2

INJURY CHART AND OCCUPANT LOCATION

4 - Pages

Body Location Designator	Weight	Evidence of Injuries	Cause of Death	Injury Classification	Body Orientation
A	201 lbs	Marked sooting of upper and lower respiratory tracts. A carboxyhemoglobin (COHb) saturation level of 27% was detected in blood ¹ . Second, third and fourth degree thermal injuries of the head and neck. Second and third degree thermal injuries of the torso and second, third and fourth degree thermal injuries of the extremities.	Smoke inhalation and thermal injuries	Fatal	Crewmember A was found kneeling on the left cockpit seat with head located above the oxygen compartment and against the cockpit sidewall. A's right foot was resting on the center console with left leg extended out of the cockpit, bent at the knee with left foot positioned on the cockpit entry step.

¹ The Federal Aviation Administration Civil Aerospace Medical Institute's Bioaeronautical Sciences Research laboratory provided toxicological data for occupants A and B. The Commonwealth of Massachusetts State Police Forensic Services Group provided toxicological data for occupants C thru G.

B	196 lbs	Marked sooting of upper and lower respiratory tracts. A COHb saturation level of 61% was detected in blood. Third and fourth degree thermal injuries of the head and neck. Second and third degree thermal injuries of the torso and second, third and fourth degree thermal injuries of the extremities. Blunt impact injuries of the torso with fractures of the left ribs (4 thru 8).	Smoke inhalation and thermal injuries	Fatal	Crewmember B was found in the right cockpit seat in a seated position turned 90 degrees to the left with back against the right armrest. B's right leg extended across the center console and left leg extended over the aft end of the center console.
C	140 lbs	Soot deposition from mouth to proximal half of trachea. COHb tested positive. Third and fourth degree thermal injuries of the head and neck. Second, third and fourth degree thermal injuries of the torso and second, third and fourth degree thermal injuries of the extremities. Blunt impact injuries of the head with 3/4 inch contusion to the left eye and a 1/4 inch perforation to the left cheek.	Smoke inhalation and thermal injuries	Fatal	Crewmember C was found lying in a prone position between seats 1L and 2L on the left side of the airplane with head pointing toward the cockpit and body positioned at a 45 degree angle to the left.
D	127 lbs	Soot deposition in upper and lower respiratory tracts. COHb tested positive. Third degree thermal injuries of the head and neck. Second and third degree thermal injuries of the torso and second, third and fourth degree thermal injuries of the extremities.	Smoke inhalation and thermal injuries	Fatal	Occupant D was found kneeling in the main entry door area with knees and feet located in the airplane's aisle and head at the base of the main entry door.

E	N/A ²	No autopsy was performed on occupant E. A COHb saturation level of 66% was detected in blood ³ .	Smoke inhalation and thermal injuries	Fatal	Occupant E was found lying on their right side in the airplane aisle with head towards the cockpit. E was located between seats 1L and 2L on the left and divan 1R on the right.
F	N/A	No autopsy was performed on occupant F. COHb was not detected in blood.	Undetermined	Fatal	Occupant F was found lying in a supine position between seats 1L and 2L on the left side of the airplane with head pointing toward the cockpit and body positioned at a 45 degree angle to the left with feet extending into the aisle.
G	175 lbs	Soot deposition from mouth to bronchi. COHb tested positive. Second, third and fourth degree thermal injuries of the head and neck. Second, third and fourth degree thermal injuries of the torso and second, third and fourth degree thermal injuries of the extremities. Blunt impact injuries of the torso with a fracture of the 5th rib. Blunt impact injuries of the head with 1/4 inch contusion of the tongue.	Smoke inhalation and thermal injuries	Fatal	Occupant G was found lying on their left side between seat 4LC and divan 2R in the airplane aisle with head pointing toward the cockpit and legs and feet lying next to the divan in the airplane aisle.

² Occupants E and F were identified through the Commonwealth of Massachusetts Department of State Police postmortem toxicology report.

³ The NMS Lab in Willow Grove, PA provided toxicological saturation levels for occupant E.