Collings Foundation, Inc. Windsor Locks, CT October 2, 2019 ERA20MA001

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

ATTACHMENT 3

**INJURY CHART** 

4 Pages

Occupant	Location For	Gender	Age	Hgt.	Wgt.	Injuries	NTSB
	Takeoff			(in.)	(lbs.)		Classification
Pilot	Pilot (Left side)	Μ	75	73	217	Marked thick soot coating upper and distal airways; displaced fracture of lateral 3rd left rib with minimal surrounding soft tissue hemorrhage; partial, horizontal fracture of T8 with slight surrounding soft tissue hemorrhage; diffuse thermal injuries of the head neck, torso, and extremities; carboxyhemoglobin 18%; COD - Smoke inhalation and thermal injury	Fatal
Copilot	Copilot (Right side)	Μ	71	70	228	Soot in the oral cavity, larynx, trachea, and proximal bronchi; 4th degree burns involving 82% body surface area; bilateral rib fractures #2-7 posterior, left with adjacent hemorrhage and #4-7 anterior right; carboxyhemoglobin 8%; COD - Smoke inhalation, thermal injury, and blunt trauma of the trunk	Fatal
Loadmaster	Not seated	Μ	34	UNK	UNK	Large 8cm laceration to left upper extremity; multiple facial lacerations; subgaleal hematoma (without underlying fracture) of right frontal region; posterolateral right 8th rib fracture (multiple locations); liver laceration; 2nd degree burns 10% body surface area (neck, right ear, bilateral arms); elevated carboxyhemoglobin but no evidence of soot, smoke inhalation, or singed hair	Serious
RS1	Behind pilot (aft-facing)	М	62	UNK	UNK	Left comminuted calcaneal fracture; 2nd/3rd degrees burns of face/head, back, left hand, right hand, and left foot (14% body surface area); occipital hematoma/abrasion; multiple abrasions/contusions	Serious
LS1	Behind copilot (aft-facing)	F	63	UNK	UNK	Large left-sided pneumothorax; left lung laceration (left lower lower); left rib fractures (5-10), some displaced; right rib fractures (6-9), nondisplaced; small right sided hemothorax; fractures of L3/L5 left transverse processes, nondisplaced; sacral fracture (S4), nondisplaced; burns, right forearm/right hand/left thigh/back; multiple lacerations including left forearm	Serious

Occupant	Location For	Gender	Age	Hgt.	Wgt.	Injuries	NTSB
	Takeoff			(in.)	(lbs.)		Classification
LS2	Radio room (swivel-style seat)	Μ	64	69	184	Marked facial fractures and abrasions involving the mandible, right orbit, nasal bones, and right maxilla; hemorrhage in the temporalis muscles; patchy subarachnoid hemorrhage; thin linear fracture at the base of the skull involving the right sphenoid and ethmoid; hemorrhage within the corpus callosum and the white frontal matter; dislocation of the right sternoclavicular joint and fractures of the anterior bilateral 4-6 ribs; fracture of the sternum at 3rd and 4th rib heads; lacerated pericardium; left lung collapsed and left chest cavity contained 1.1L of blood; laceration of right atrium of the heart with heart completely transected from the inferior vena cava; gaping fracture of L1 with exposure of the spinal cord; fractures of posterior left rib 3-5 and lateral left ribs 4-10 as well as lateral right ribs 4-7; right horn of hyoid fractured; fracture of distal right radius and ulna; laceration with exposure of fractured right tibia and fibula without thermal injury; palpable fracture of left tibia and fibula; carboxyhemoglobin 6%; 100% body surface area thermal injury; COD - Blunt impact of head, torso, and extremities with fractures and visceral injuries	Fatal
RS2	Radio room (floor right side)	Μ	56	72	198	Patchy subarachnoid hemorrhage (right parietal lobe); fine linear fractures of bilateral orbital plates; early cortical contusions of medial left frontal lobe and right occipitotemporal gyrus; facial lacerations; liver contusion; left sternoclavicular joint fracture; fractures of left ribs 1-6 (costochondral junctions); fractures of anterior right ribs 1-3, lateral right ribs 4-7, lateral left ribs 1-5; posterior fractures of left ribs 1-9 and right ribs 1-4 and 8-10; lung contusions; spleen laceration; displaced fractures of the pelvis involving the left sacroiliac joint, right superior and inferior pubic rami; avulsion of bilateral lateral processes of the lumbar vertebra; multiple abrasions and contusions of all extremities; fractured proximal left tibia and fibula; thermal burns involving 35-50\$ body surface area no soot in airway; COD - Blunt impact of head, torso, and extremities with fractures and visceral injuries	Fatal

Occupant	Location For	Gender	Age	Hgt.	Wgt.	Injuries	NTSB
LS3	Takeoff	М	66	(in.)	(lbs.)	Facel as the reaching in the many here of a such wall as my avities 1/2 in the sub-	Classification
LSS	Radio room (floor left side)		00	70	215	Focal subarachnoid hemorrhage of cerebral convexities; 1/2 inch vertical laceration of left upper lip; avulsion of nasal bones from maxilla; dense blood within nares, airways and cranial sinuses; fractures of right ribs 1-12 posteriorly, left ribs 1, 2, 4-7, and 12 posteriorly and left ribs 2-4 laterally; fracture lacerations, left lower lung lobe; contusions of right lung; left hemopneumothorax; contusion of liver; gaping laceration of left hemidiaphragm; markedly displaced fractures of the pelvis, including fracture of the left superior and inferior pubic rami and fracture of the acetabulum with superior displacement of the femoral head into the pelvis; avulsion of the lateral processes of all the lumbar vertebrae; thermal injuries involving 80% body surface area; focal soot within trachea and proximal bronchi; carboxyhemoglobin levels 8-13.3%; COD - Blunt, thermal and smoke inhalation injury	Fatal
RS3	Waist gunner area (right side)	Μ	48	72	163	Thin, patchy subarachnoid hemorrhage over cerebral convexities; laceration of right ear and right temporal scalp; marked petechiae of the bulbar and palpebral conjunctivae bilaterally; marked soft tissue hemorrhage of the upper chest and shoulder; widely displaced fracture of the proximal right clavicle; multifocal displaced fractures of the right ribs 1-8, with marked soft tissue hemorrhage; displaced fractures of lateral left ribs 1 and 2 and anterior left ribs 8 and 9, with moderate soft tissue hemorrhage; 200 mL of blood in right pleural cavity; three lacerations of liver, measuring up to 1 inch; COD - Blunt impact injuries of head and torso	Fatal
RS4	Waist gunner area (right side)	Μ	59	71		Soot in the oral cavity, larynx, and trachea; third degree burns with charring of the body with focal sparring of the right buttock and anterior thighs; focal rib fractures including the anterior right #2 and 3 and lateral left #3-6; carboxyhemoglobin 14%; COD - Smoke inhalation and thermal injury	Fatal
RS5	Waist gunner area (right side)	М	54	UNK	UNK	Right proximal closed humerus fracture; abrasion left flank; multiple abrasions and superficial lacerations	Serious
LS4	Waist gunner area (bulkhead seat)	N/A	N/A	N/A	N/A	UNOCCUPIED	

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	Takeoff			(in.)	(lbs.)		Classification
LS5	Waist gunner	М	36	UNK	UNK	10 cm laceration, left frontal scalp; multiple facial lacerations; significant	Minor
	area (left side)					left-sided facial swelling	
LS6	Waist gunner	М	48	UNK	UNK	35% body surface area partial thickness burns including left arm, left	Serious
	area (left side)					foot, and entire back	
Bystander	N/A	М	28	UNK	UNK	Multiple superficial burns to bilateral hands and face; lifted hot canvas	Minor
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