

**NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

December 3, 2013

**STRUCTURES**

**Group Chairman's Factual Report**

**WPR12MA034**

Attachment 1 – Wreckage Diagram  
(1 pages)

**Composite MRB Trim Tab**

N21° 04.12422'  
W156 50.79712'  
Elev. 600'  
Approximately  
1,330' to main  
wreckage

**Stinger Mount Plate**  
N21° 04.13990'  
W156 50.69642'  
Elev. 550'

**Stinger**  
N21° 04.104'  
W156° 50.653'  
Elev. 585'

**Tailboom-Fenestron Ring Frame**  
N21° 04.099'  
W156 50.645'  
Elev. 590'

**Lower Fenestron Piece**  
N21° 04.08372'  
W156 50.67902'  
Elev. 511'

**Main Upper Section of Fenestron**  
N21° 04.098'  
W156 50.626'  
Elev. 608'

Miscellaneous  
Composite Pieces,  
Plexiglas & Interior  
Baggage Items in  
Wooded Valley  
West of Accident  
Site

~480'

Forested Valley Terrain  
Creekbed

Approximate Location of aft section  
of TRDS (per Police)

Battery door panel & side  
baggage door panel.

**Main Wreckage**  
N21° 04.050'  
W156 50.578'  
Elev. 530'

- Approximate Nose Direction at Main Wreckage (West)
- Approximate Attitude at Main Wreckage (Inverted)

Three blade strike signature on ground  
The 1<sup>st</sup> had a piece of the metal end plate in ground  
The 3<sup>rd</sup> exhibited a full length impact along the  
ground and to a rock at the tip similar to Blade "C"

Ground Impact made by rotor hub  
Starflex arm (outer section) in ground

Lower Fenestron Structure

Blade "B"

Blade "C"

Blade "A"

Engine, Main Rotor Hub  
and Transmission

Landing Gear  
Skids Inverted  
Interior Debris

Downhill Terrain

Approximately 2.3 Miles to Ridge Line

625'

95' Fenestron Stator

**Fenestron Gear Box**  
N21° 04.071'  
W156 50.577'  
Elev. 562'

81'

Un-Improved Mountain Rd.

~170'

17'

Tail Cone with...  
Lt. (Burnt) & Rt. (Damaged)  
Horizontal Stabilizer

Burnt FWD Section of  
TRDS Fenestron Cover

Approximately 8' of TR  
Drive Shaft (Center Section)

0.0'

Approximately 1 Mile to Cost Line

Drawing Not To Scale

**N11QV, EC130B4, S/N:4909, Pukoo, HI, 11/10/11**

Molokai

