ATTACHMENT 3

Final Report from Director of Safety



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Report prepared by: Michael C. Flaherty, Director of Safety

Date: 22 August,

Accident or incident: Separation of "chin bubble" from cabin, helicopter N350SH.

Attachments:

In accordance with Sundance Helicopters Safety Management System Policy, this report serves to document the Director of Safety's investigation into the facts and circumstances surrounding the listed accident or incident.

This document contains a detailed list of the relevant facts known at the time of the report, and is intended to st as an educational tool for the continuous improvement of our Risk Management Program.

Distribution: Lawrence Pietropaulo, CEO

Kurt Barton, Director of Operations Kyle Reynolds, Director of Maintenance

General Data

Event Date & Time	16 June 2011 08:30am			
Event Type	Failure of non-structural airframe component (chin bubble & related seal)			
Event Location	Ramp at Sundance Helicopters Base, McCarran international Airport, Las Vegas, i			
Type of Activity Process or procedure engaged in at time of event.	Departing helicopter tour flight of the Grand Canyon, operating under applicable so			
Personnel directly exposed to hazard	John Testa, Line Captain & 5 tourist passengers			
Injuries	Flight Crew: None reported Ground Crew: None reported PAX: Non			
Emergency Services Provided Police, Fire, Ambulance/EMT	No emergency services requested or provided.			
Equipment Involved	One Eurocopter model AS350 B2 helicopter. Registration # N350SH.			
Property Damage	No significant property damage. No collateral damage.			
Reported to local FSDO	No			
Reported to NTSB	No			
OSHA Reportable/Recordable	No/No			
SafeCom Issued (OAS)	N/A			
Hazard Potential	Mild Moderate Severe			
Event Description	On the morning of 16 June Line Captain John Testa was hovering on the Sundance the intent to depart on a routine helicopter tour flight of the Grand Canyon. As he be transition from hover to taxi, he noticed the left hand side (Pilot's side) chin bubble from the helicopter. The helicopter was immediately landed without further inciden Upon landing, the pilot made a discrepancy entry in the aircraft maintenance log in separation of the L/H chin bubble. Maintenance personnel immediately responded the chin bubble with a new one. Upon completion of repair and related documentationiginal Crew and passengers completed the tour without further incident.			
Probable Cause	The night before the event, an AMT was responding to a discrepancy on N350SH. troubleshoot the issue, the AMT had removed the L/H chin bubble in order to gain a certain electrical components. After an interview with the AMT conducted by the Maintenance QA Manager and t Safety, the consensus was that the AMT failed to properly re-install the chin bubble completion of his diagnostic task the prior evening. At the request of the CEO, The Director of Safety & the Maintenance QA Manager formal Root Cause Analysis in an attempt to develop a deeper understanding of the causes and contributing factors that lead to this failure. Using a 5 step process, the a revealed the root cause of this event was the AMT's perception of the of the need to the repair in order to avoid contributing to an unacceptable aircraft downtime rate. In his attempt to expedite the repair process, the AMT failed to reference the appropriate maintenance documents that detail the task of installing the chin bubble. Admittedly attempted to rely on past experience and memory for completing the task.			
Economic Impact (expenses directly related to this event)	\$350.00 Cost of replacement window, Part # 350A21-0200-26.			
Corrective Action(s)	The Director of Maintenance has since provided all company AMTs specific trainin the proper removal & installation of Eurocopter AS350 helicopter chin bubble (win			
Additional Recommendations				

Flight Crew Data

Name of pilot in command	John Testa		
Date of hire	04 April 2011		
Total hours as PIC helicopters	2013 Hours (approximately)		
Total number of hours in type	125 Hours (approximately)		
Most recent checkride or flight eval. prior to event	Date: 14 April 2011 Type: Initial FAA Part 135,293/299 Airman Competency/Profici Results: Approved		
Medical certificate data	Type: FAA 1st Class Limitations: None Exam Date: 12/06/2010		
Pilot certificate data	Type: FAA Commercial Pilot Certificate with Rotorcraft Helicopter &Instrument Heli Limitations: "English Proficient"		
Other pilot qualifications	Charter Qualified: No OAS Carded: No		

Aviation Maintenance Technician Data

Name of AMT	Gaylan Waterfallen	
Date of hire	22 November, 2010	
Position (at time of event)	Lead Aviation Maintenance Technician & Company Aircraft Maintenance Inspector	
FAA Certification	FAA Certified Mechanic, Airframe & Powerplant	
Training Has AMT received make/model specific training? When?	Eurocopter AS350 Field Maintenance Course, completed 22 March, 2002. Arriel Line Maintenance Familiarization Course, completed 09 July 2004.	
Other specialized training Co. Inspector, Human Factors, etc.	Sundance Helicopters Aircraft Maintenance Inspector Course, completed 26 April, 201	
Experience in field	11 years as FAA Certified A&P	

Aircraft Data

Aircraft Type	Eurocopter Model AS350 B2 Helicopter		
Registration	N350SH		
Serial No.	2957		
Aircraft Total Time	19,605 Hours		
Engine Total Time	4,133 Hours		
Identification of failed	Left hand "chin bubble" (Plexiglas) Part #350A21-0200-26, and related seal.		
component			
Life limited component?	No. Serviceability is determined upon inspection.		
Total number of hours on	Unknown.		
failed component			
Failed component maintenance	Date of last inspection: N/A	Total time; N/A	
and/or inspection history	Inspection type: N/A		
	Condition of component: N/A		

Environmental Data

Source	KLAS METAR				
General Weather Conditions	VFR	Marginal VFR	IFR		
Time of Report	16 June, Approximately 07:56 am (local time)				
Wind	Calm				
Temp °F	84° F				
Dew Point °F	28° F				
Visibility	10 Miles				
Ceiling					
Sky Condition	Clear				