### Attachment 18

External Safety Audits (DOD and TOPS)



# DEPARTMENT OF THE AIR FORCE HEADQUARTERS AIR MOBILITY COMMAND

HQ AMC/A3B

Scott AFB IL 62225-5302

NOV 22 2011

Chief Executive Officer Sundance Helicopters, Inc.

Las Vegas NV 89119

Dear Mr. Pietropaulo

Thank you for your cooperation during our 12-16 September 2011 survey of your company. The Department of Defense (DOD) Commercial Airlift Review Board has approved Sundance Helicopters, Inc., for continued participation in the DOD Air Transportation Program. A copy of our survey report is attached.

Sincerely

MERLIN L. LYMAN Chief, DOD Commercial Airlift Division

Attachment: Survey Report

cc: FAA

### DEPARTMENT OF DEFENSE CAPABILITY SURVEY OF SUNDANCE HELICOPTERS INC.

### **SEPTEMBER 2011**



The integrity and objectivity of the information presented in this capability survey is the responsibility of the Department of Defense Commercial Airlift Division (HQ AMC/A3B). This office maintains a system composed of inspection and internal data collection. All data is obtained from public sources, those provided by the carrier and officials of the Department of Transportation. The review was conducted in accordance with the guidance contained in the Department of Defense Directive 4500.53, the Air Mobility Command supplements, and the pertinent HQ AMC/A3B operating instructions.

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### SUMMARY

Personnel from the Department of Defense (DOD) Commercial Airlift Division conducted a biennial survey of Sundance Helicopters, Inc., on 14-15 September 2011. The following matrix summarizes results of the survey:

OPERATIONS (O)	DOES NOT MEET STANDARDS	MEETS STANDARDS AFTER CORRECTIVE ACTION	MEETS STANDARDS	MAINTENANCE (M)
MANAGEMENT			O,M	MANAGEMENT
SAFETY			O,M	PERSONNEL
FLIGHT OPS		M*	О	QUALITY ASSURANCE
CREW HIRING	313		O,M	INSPECTION ACTIVITY
TRAINING			O,M	TRAINING
CAPT UPGRADE			О,М	CONTROL & PLANNING
SCHEDULING			О,М	ACFT MX PROGRAM
IN-FLIGHT PERF			O,M	ACFT RECORDS
OPS CONTROL			O,M	ACFT APPEARANCE
CHARTERS			O,M	FUELING & SERVICING
SECURITY			O,M	MANUALS
CONTRACT REQ			O,M	FACILITIES/CAPABILITIES

<sup>\*</sup> Denotes Meets Standards after Letter of Concern (LOC) follow up.

The following is a list of discrepancies that required corrective actions by Sundance Helicopters, Inc., to meet the DOD Commercial Air Transportation Quality and Safety Requirements (Plain text discrepancies were corrected on-site, bold text required LOC follow-up):

### Maintenance

### Quality Assurance/Maintenance Inspection

- The system to continuously analyze the performance and effectiveness of maintenance activities was inadequate.
- The required system to evaluate contract vendors, suppliers, and their products was not sufficient.

# FACTUAL DATA SUNDANCE HELICOPTERS, INC.

- Main Base of Operations: Las Vegas NV
- Main Base of Maintenance: Las Vegas NV
- Type of Survey: Biennial
- Date of Survey: 14-15 September 2011
- Certificate Number: KBMA477F, authorized FAR Part 135 On-Demand Rotorcraft (Pax/Cargo)
  - -- Certificate Status: Active as of 18 November 1985
- Employs:
  - -- 42 line pilots and 4 staff pilots
  - -- 17 certified mechanics
- Type of Equipment: 18 AS-350s and 4 EC-130s
- Type of Service Provided to DOD: Provides rotary-wing passenger charter.

**Evaluation: Meets Standards** 

**Evaluation: Meets Standards** 

**Evaluation: Meets Standards** 

### MANAGEMENT

### **OPERATIONS MANAGEMENT**

- Managers are highly qualified and have many years of flight and management experience.

### **Internal Audit Program**

- Company's method of identifying in-house deficiencies and measuring compliance with policies and procedures consists of quarterly audits followed by an annual audit contracted and conducted by Tour Operators Program of Safety approved auditors.
- -- Discrepancies are tracked to closure and analyzed to determine the root cause of the deficiency.

### MAINTENANCE MANAGEMENT

- - -- Personnel average more than 25 years in the aviation industry.
- Company structure and lines of authority are well defined.

Maintenance management team is highly experienced.

- Excellent communications exist with both operations and mechanics.

### **OPERATIONS**

### SAFETY PROGRAM

- The director of safety is the primary focal point for all safety issues and has some formal safety training.
- -- He reports to the chief executive officer for all safety matters, interacts with other staff through meetings, and the pilot force through daily informal contact.
- Awareness of safety program features is bolstered by the operations manual and a safety manual outlining the program's key functions.

### **FLIGHT CREW HIRING**

**Evaluation: Meets Standards** 

### **Pilots**

- Screening process for new-hires includes background checks and an interview by both operations management and a senior pilot. Usually, they are dealing with someone they have knowledge of or someone recommended to them by a competent source.
- The minimum experience requirement is 1,000 hours pilot-in-command helicopter time.
- Company usually hires around 12 pilots a year; hiring is usually done in the spring in order to train pilots and have them ready for the busy summer season.

TRAINING Evaluation: Meets Standards

### **Facilities**

- Ground and flight training is accomplished at company headquarters.
- Flight training is accomplished by company instructors in company aircraft.
- All pilots go through contracted specialized landing training annually.

### **Pilots**

- Company has seven instructors, three of which are also check airmen.
- Pilots accomplish single-pilot crew resource management training on a recurring basis.
- HAZMAT recognition training is completed annually.
- Cargo-sling and mountain operations have a specialized training curriculum; only the most experienced pilots obtain this training.

### **CAPTAIN UPGRADE**

Not Applicable

- Pilots are hired as captains; all operations are single seat.

### **15 SEPTEMBER 2011**

**Evaluation: Meets Standards** 

**Evaluation: Meets Standards** 

### SUNDANCE HELICOPTERS, INC.

### **Mission Monitoring**

- Monitoring is accomplished utilizing an extremely effective automated system; Spider Tracks System provides real-time notification of overdue aircraft to all managers automatically.
- Flight followers provide effective daylight coverage, 7 days a week.
- Company had available a copy of the current DOD notification procedures.

### **Load Manifests**

- Actual weights are used for all company flights, including all DOD charters.
- A review of load manifests from the 3-month file revealed no discrepancies.

### CHARTER PROCEDURES

- Charter procedural guidance ensures compliance with DOD requirements.

SECURITY Evaluation: Meets Standards

- Security is bolstered by roving airport security, fenced ramp, night watchman, locking gas caps on helicopters, and lockout controls and pedals on contract and charter helicopters.

### CONTRACT REQUIREMENTS

- Company satisfies the specific aircrew and equipment requirements of their DOD contract.

### **MAINTENANCE**

### PERSONNEL Evaluation: Meets Standards

- Highly qualified mechanic workforce is in place with low turnover.
- -- Airframe and powerplant licenses are verified through the FAA by quality assurance manager (QAM).

### **TRAINING**

Evaluation: Meets Standards

- Sundance's training program provides highly qualified mechanics to support maintenance operations.
- -- The QAM tracks training using a computer, provides new employees formal indoctrination, and monitors special authorizations for critical tasks.
  - -- Aircraft technical training is accomplished through on-the-job training.
- --- Initial and documented annual recurrent engine-run training is provided to mechanics by the chief pilot.
- Review of training records was satisfactory.

### **CONTROL & PLANNING**

- **Evaluation: Meets Standards**
- Production manager is responsible for monitoring and controlling maintenance.
  - -- Process utilizes a computerized database to monitor current maintenance status.
- Director of Maintenance provides strong management of minimum equipment list (MEL) discrepancies.
- Maintenance forecasting and planning are the responsibility of the production manager.
  - -- Daily reports and monthly forecasts are generated electronically.

### AIRCRAFT MAINTENANCE PROGRAM

- Evaluation: Meets Standards
- Sundance maintains its aircraft under the manufacturer's program.
  - -- All inspections are normally performed by company maintenance personnel.
- Mechanical-performance monitoring is accomplished through an adequate daily review of maintenance actions.
- Production manager and QAM are responsible for control and oversight of FAA-issued airworthiness directives (AD).
- -- Applicable ADs and service bulletins are tracked via a computerized database; review of AD compliance records was satisfactory.

- -- Facilities are maintained in good condition and provide satisfactory support.
- -- Receiving inspection procedures verify that parts are only received from approved vendors.
- -- Review of components found all to be properly tagged, environmentally protected, and traceable to an FAA-approved source.
  - -- Documented shelf-life program is in place; no overdue items were available for issue.
- Management of scrap components is satisfactory.

### AMC COCKPIT MISSION OBSERVER PROGRAM (Commercial Air Carrier Operational Checkride) AUTHORITY The authority for this inspection is contained in the Defense Authorization Act as amended Nov 86 (Public Law 99-6611). The inspection will be accomplished in accordance with the guidance provided in HQ AMC/XOBS operating instructions. SEND COPY TO: (Check (X) appropriate addressee(s)) MTMC FAA/POI CARRIER CARRIER 1. NAME OF CARRIER 2. MISSION NUMBER AND DATE 3, TYPE OF AIRCRAFT / TAIL NUMBER SUNDANCE HELICOPTERS INC - KBMA 65 15-SEP-2011 AS-350 / N507SH 4. ROUTE (ICAO) 5. TOTAL FLIGHT TIME KLAS-Grand Canyon Bluff-KLAS 1.3 6. CREW MEMBERS a. CAPTAIN'S NAME b. FIRST OFFICER'S NAME c. SECOND OFFICER'S NAME d, SENIOR FLT ATTENDANT'S NAME LOUIS HALL 7. OBSERVER a. NAME b. SIGNATURE Mr Guy Dempsey LEGEND E = Exceeds General Industry Practices U = Unsatisfactory (Explain) S = Satisfactory P = Potential Problem (May need further investigation) I = Information N = Not observed CODE AREA OBSERVED **BRIEF COMMENTS** Mission S Predeparture Crew Activities S Passenger Boarding S Aircraft Exterior Appearance Ν Cabin Condition Ν Walk-Around Inspection Flight Deck S Cleanliness S Operations and Maintenance Manuals S Registration and Airworthiness Certificates S Maintenance Log S Instrumentation S **Emergency Equipment** S Planned Fuel Load S Weight and Balance

AMC FORM 228, DEC 93

Manifest / Hazmat

PREVIOUS EDITION IS OBSOLETE

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JULIAN/CALENDAR DATE ITI	NE HOODIET			SPECT		ECKLIST			
	ME AIRCRAFT SPECTION COMPLETE	SCHEDUL DEPARTU		Ξ		TION LOCATION AND STATIO	N CODE	- 1	NSPECTION
10-052-2011	2:30	ĺ			KLAS-M	CARRAN INTL	-	. 1	DEPARTURE
CAM/MISSION NUMBER	CARRIER				L	AIRCRAF	ΤΤΥΡΕ	İTA	EN ROUTE
NA .	SUNDANCE HELICO	OPTERS INC -		INSPE	CTION	AS-350			3SH
PAX CA	ARGO [	INTERNAT		- II. IO. L	T T	DOMESTIC	T	SAAL	VEXERCISE
LEGEND: N/R = NOT REQUIRED, MD = S = SATISFACTORY, U = UNSATISFAC	MINOR DISCREPANCY	N/R	s	МD	T u		REMAR	Marie Marie	
I. FLIGHT DECK IN	SPECTION ITEMS	3000				45. EXPLAIN ALL UNSATISFA	ACTORY, MINO	OR DISCREPA	ANCY, NOT
1. REVIEW LOG BOOK FOR MEL, REP AIRWORTHINESS CERTIFICATE	EAT TRENDITEMS AND		V			REQUIRED ITEMS AND COR NOTIFY THE CREW OF ALL	DISCREPANC	IES NOTED A	ND OPEN MEL
2. OPERTATIONS AND MAINTENANCE	MANUALS AVAILABLE	[	V			TITEMS, UPON REQUEST, GI MAINTENANCE CREW. (ITE)	<b>MS MARKED V</b>	TED COPY TO WITH (1) WILL	D BE
3. FLIGHT DECK FOR CLEANLINESS			V			CONFIRMED BY FLIGHT CRI	EW)		
4. WINDSHIELDS AND WINDOWS FOR	CONDITION		4			1. RATED: MEETS STANDAR	DS MEL:0		
5. CREW SEATS AND SAFETY BELTS			모						
6. INSTRUMENTS - FLIGHT / ENGINE			\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		П				
7. CREW / SMOKE AND OXYGEN MAS	KS FOR CONDITION	V	T.	П	П	1			·
8. FLIGHT DECK / FIRE EXTINGUISHER	R	П	V		П				•
9. EMERGENCY AX - FLIGHT DECK		V		Г	Г				
10. CREW CHECKLISTS / NORMAL AN	D EMERGENCY		I.	П	Г				
11. OXYGEN QUANTITY		V	Г	П	Γ				
12. WEATHER AVOIDANCE RADAR			V						
13. RADIOS NAV / COMM			┍	Г					
14. DE-ICING SYSTEM OPERATION		I	П	П	Г				
15. HEATING AND COOLING SYSTEM			V		П				
16. PRESSURIZATION			V	П	П				
II. MAIN CABIN INSI				7000S					
17. GENERAL CONDITION / CLEANLINE	ESS		<u> </u>				ė		
18. SECURITY OF SEATS IN TRACK			le.						
19. SAFETY BELTS			(S)						
20. MAIN CABIN FIRE EXTINGUISHER			I.S.						
21. FLASHLIGHTS (1 PER CREW MEME			짇						
2. PASSENGER OXYGEN EQUIPMENT		<u> </u>							
3. EMERGENCY EXITS - MARKINGS A	ND ACCESSIBILITY		V				•		
4. ESCAPE SLIDES AND ROPES		<u> </u>							
5. EMERGENCY LIGHTING FOR OPS /	AND INTENSITY	্ব		厂	П				
6. MEGAPHONE		<u> </u>							
7. LIFE RAFTS		. I⊽			П				
8. SIGNAL FLARES		V	П	$\Box$					
9. EMERGENCY RADIO			☑			•			
0. LIFE VESTS			V		П				
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3. SECURITY OF DOORS AND PANELS			₽ V	<u> </u>					
4. EMERGENCY EXIT - MARKINGS / IN			\rac{1}{V}	<u> </u>					
5. LIGHTS / LANDING, NAV AND ANTI-		<del>-    -  </del>	V	1.	-				
6. ENGINE CONDITION AND COWLING			V	-1					
7. LEAKS / FUEL, OIL, HYDRAULIC	- WOLLDWICH		<u> </u>	븜					
8. FLIGHT CONTROL SURFACES			Y		1				
9. WHEEL WELL AREAS FOR CONDITION	ON	<u> </u>	15:	I					
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R. AME, GRADE, EMPLOYEE #, UNIT, PHO									

TOPS Membe	::			Date:
		OUT-BR	INRING	DATE:
	Name	001-BR	ГЕРЦІО	Title
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LAWRENCE PÍRTRAPAULO LOGÍC HALC			CEO	/
Louic	HALC	7	Tpaining	CAPTain
KurT	BARTON		Director	CAPTZIN OPNS VOT
Burl	BOYD	by list of all Opera	chief F tor personnel present	Plot
	TO	PS AUDI'	T RESULTS	
Č	Recommende	d for TOPS m	embership	
AUDIT RESULTS	Recommende corrected to T	d for TOPS m	embership (After items	listed above have been
	Not Recomme	ended for TO		tor does not meet TOPS list of discrepancies
OPERATOR REPRESENTATIV	SI	GNATURE:		
		NAME:	4	
		<u>/- </u>		Please Print
		TITLE:	Auditor	-
				Please Print
				-9-11
TOPS AUDITOR:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	GNATURE:		
		NAME:	Lawrence	1. Pietropeulo
				Please Print
		FOR INTERN	AL USE ONLY	- Anna Carlotta Carlo
Approved by the	Membership Review			
			Signature	Date
Approved by the To	OPS Board of Directo	ors	Signature	Date

Findings, comments and narrative to be provided in Audit Report to be submitted with this audit form.

JEN- Please ATTACH TO SUNDANCE AUDIT

Revision: 2/24/2011 -- Final

**TOPS Member: Sundance Helicopters** 

Date:\_7/11-12/2011\_\_\_\_

Date:	July 11-12, 2011	OERA70
Company:	Sundance Helicopters	4.
Address:		
City, State, Zip	Las Vegas, NV. 89119	
Telephone:		
FAX:		POGRAMO!

IN-BRIEFING:	Name/Title:	Kurt Barton, Director of Operations		<u> </u>
AREAS OF INTI	EREST:	All		
		Key Personnel		
	Title	Name	How long in position (yrs)?	How long with company (yrs)?
C	EO/President:	Lawrence Pietropaule	3	3
Director (	of Operations:	Kurt Barton	8	8
Director of	Maintenance:	Kyle Reynolds	1	11
Sa	fety Manager:	Michael Flaherty	4	6

### GENERAL OPERATIONS

1. Regional areas of operation:

Contiguous United States and District of Columbia

2. Who has operational control?

Operational management team

3. List air tour bases include name of Base Manager and Field Elevation

Base	Elevation	Manager	Aircraft Make/Model Assigned	Number
KLAS	2100 Ft.	Kurt Barton	AS-350	18
	<b>—</b> , , , , , .		As-130	4
1G4	4825	Ray Medina	Aircraft based in KLAS	
		•		

**TOPS Member: Sundance Helicopters** 

Date: 7/11-12/2011\_\_\_\_

# **Audit Areas**

Bullet points under the audit categories summarize TOPS Program requirements and indicate areas required to be reviewed during the audit. Refer to the TOPS Program of Safety for specific requirements.

For each section, use the 1-4 scale. 1 Non-compliance with TOPS Standards, 2 Meets TOPS Standards with areas for improvement, 3 Meets TOPS standards, 4 Meets TOPS standards with areas that exceed. Comments are required for each audit category.

A.		MAN	NAGEMENT		
1. 1	Non-compliance with TOPS Standards	2. Areas for improvement	3. Meets TOPS standards	4. Exceeds TOPS stand	lards
			.,		
1.	Key Personnel Quali	fication		Area audited?	Х
2.	Establishment of Cle procedures	ar Operating Standards	based on safe and professiona	Area audited?	Х
3.	other operators and a	ppropriate agencies	d other safety procedures wit	Area auanea	х
	dance but with othe xperience to the co		members of managemer	nt bring a broad lev	/el

**TOPS Member: Sundance Helicopters** 

Date: 7/11-12/2011

В.		SAFETY					
	Non-compliance with TOPS Standards	2. Areas for improvement	3. Meets TOPS standards	4. Exceed	ls TOPS stand	lards	
			X		Х		
1.	Top Management d	ety Ar	ea audited?	X			
2.	Safety Manager as p	part of top management		Ar	ea audited?	X	
3.		Effective Safety Management Program including a safety reporting program to identify hazards before an incident or accident happens					
4.	Emergency Respon	Are	ea audited?	X			
5.	Safety Training incl	Are	ea audited?	Х			

Comments: The SMS program is new as of Jan 11, 2011.

Human factors is taught through the company training captain on a regular basis.

All top managers are taught the SMS program and buy into it.

Spider tracks are incorporated on the flight following process and are overlaid over Google Earth.

The company has secret shoppers that are experienced in aviation ride along and report their findings on a quarterly basis. The passengers are unknown to the employees they come in contact with.

NOTE: It was suggested that TOPS adopt a standard TOPS SMS program dealing with all tour subjects. TOPS is a safety orientated group and I feel this suggestion warrants discussion.

**TOPS Member: Sundance Helicopters** 

Date:	7/11-12/2011	
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C.		FLIGHT	OPERATIONS .		* *
1. N	lon-compliance with TOPS Standards	4. Exceeds TOPS stand	ards		
		Lawrents	X		
1.	Operational Control	1		Area audited?	Х
2.	Crew and flight pro weather minimums,	cedures standardized to inc IMC recovery procedures,	clude crew coordination, rou , and appropriate flight	utes, Area audited?	х
3.	Passenger briefings	and escorting during ramp	operations	Area audited?	х
4.	Aircraft properly eq	uipped for the mission and	the area being flown	Area audited?	х
5.	Emergencies Proces	dures unique to the mission	profile flown	Area audited?	Х
6.	Operator plan for or	ngoing oversight of tour ro	utes and flight operations	Area audited?	Х
Fligh of fli follo Pass Only The	ntain operational of the locating and tra- ght tracks and air wing is two way versengers are escor- one aircraft is all company uses se ey exist. These si	control over the fleet.  cking is done by Spide craft location at any tirelice.  ted to and from aircraft owed to hover on the recret shoppers at a min	amp at any given time. imum of once a quarter avvy and are reliable. <i>A</i>	positive identification emental flight	on

**TOPS Member: Sundance Helicopters** 

D.		ř	PILOTS							
	lon-compliance with TOPS Standards	2. Areas for improvement	3. Meets TOPS standards	4. Exceeds TOPS stand	lards					
			X							
1.	Pilot qualifications,	staffing and crew rest		Area audited?	Х					
2.	Pilot Training and d	ocumentation		Area audited?	X					
3.	Pilot Professionalis	n		Area audited?	Х					
3. Pilot Professionalism  Comments: Pilot qualifications meet TOPS standards. At this time the pilot staff is relatively stable and the average age of the pilots and total flight times are above the norm, for past years.  Professionalism among the pilot staff is very high.  Pilot training is above what is required by the FAA and is done in house with outside instructors visiting and training the pilots each year.										
					•					

TOPS Member: Sundance Helicopters Date:\_7/11-12/2011\_\_\_\_

1. Non-compliance with TOPS Standards  1. Manifesting procedures  2. Flight Following  3. Emergency Response Plan  4. Flight following personnel training and documentat Comments: Manifesting is done and all passengers and balance is checked and each passenger is lower to be procedured by the procedures.  Flight following is done with Spider Tracks and volumentates a trained person who directs the aircraft and over sees all ramp activities, clears aircraft a The emergency response plan is part of the SMS	Meets TOPS standards	4. Exceeds TOPS stand	····				
<ol> <li>Flight Following</li> <li>Emergency Response Plan</li> <li>Flight following personnel training and documentat</li> <li>Comments: Manifesting is done and all passengers and balance is checked and each passenger is lower following is done with Spider Tracks and volumentat</li> <li>There is a trained person who directs the aircraft and over sees all ramp activities, clears aircraft and</li> </ol>							
<ol> <li>Flight Following</li> <li>Emergency Response Plan</li> <li>Flight following personnel training and documentat</li> <li>Comments: Manifesting is done and all passengers and balance is checked and each passenger is lower following is done with Spider Tracks and volumentat</li> <li>There is a trained person who directs the aircraft and over sees all ramp activities, clears aircraft and</li> </ol>	X						
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and balance is checked and each passenger is lo Flight following is done with Spider Tracks and v There is a trained person who directs the aircraft and over sees all ramp activities, clears aircraft a	ion	Area audited?	X				
	on the heliport. Thind supervises ram	p activities.	dio				

TOPS Member: Sundance Helicopters Date:\_7/11-12/2011\_\_\_\_

1. Non-compliance with TOPS Standards  1. Meets FAA standards  1. Meets FAA standards  2. Property equipped and maintained  3. Provides a safe and functional area for passenger movement and flight yer are supervised and all loading is done with assistance of ground personnel or the pilot if the aircraft are all properly equipped for the type flying they do.  3. See previous pages.  Fueling at KLAS is done using Signature and fueling at Grand Canyon West is and in house activity.	F.		HH	ELIPORT			
1. Meets FAA standards  2. Properly equipped and maintained  3. Provides a safe and functional area for passenger movement and flight operations  Comments: The landing areas meet FAA standards and are clear of FOD and are safe. They are supervised and all loading is done with assistance of ground personnel or the pilot if the aircraft is shut down.  The aircraft are all properly equipped for the type flying they do.  3. See previous pages.  Fueling at KLAS is done using Signature and fueling at Grand Canyon West is and in				3. Meets TOPS standards	4. Exceeds TOPS standard		
2. Properly equipped and maintained  Area audited?  X  3. Provides a safe and functional area for passenger movement and flight operations  Comments: The landing areas meet FAA standards and are clear of FOD and are safe. They are supervised and all loading is done with assistance of ground personnel or the pilot if the aircraft is shut down.  The aircraft are all properly equipped for the type flying they do.  3. See previous pages.  Fueling at KLAS is done using Signature and fueling at Grand Canyon West is and in				X			
3. Provides a safe and functional area for passenger movement and flight operations  Comments: The landing areas meet FAA standards and are clear of FOD and are safe. They are supervised and all loading is done with assistance of ground personnel or the pilot if the aircraft is shut down.  The aircraft are all properly equipped for the type flying they do.  3. See previous pages.  Fueling at KLAS is done using Signature and fueling at Grand Canyon West is and in	1.	Meets FAA standard	s		Area audited? X		
Comments: The landing areas meet FAA standards and are clear of FOD and are safe. They are supervised and all loading is done with assistance of ground personnel or the pilot if the aircraft is shut down.  The aircraft are all properly equipped for the type flying they do.  3. See previous pages.  Fueling at KLAS is done using Signature and fueling at Grand Canyon West is and in	2.	Area audited? X					
They are supervised and all loading is done with assistance of ground personnel or the pilot if the aircraft is shut down.  The aircraft are all properly equipped for the type flying they do.  3. See previous pages.  Fueling at KLAS is done using Signature and fueling at Grand Canyon West is and in		4   Area numera   1 Area numera   1 Area					
	The	aircraft are all prop ee previous pages ing at KLAS is don	perly equipped for the		on West is and in		

**TOPS Member: Sundance Helicopters** 

G.	MAINTENANCE						
	on-compliance with FOPS Standards	2. Areas for improvement	3. Meets TOPS standards	4. Exceeds TOPS standards			
			X				
1.	Maintenance areas and shops  Area audited?						
2.	Technical publications and manuals  Area audited?						
3.	Parts and supplies	Area audited? X					
4.	Maintenance quality	y assurance (company size	appropriate)	Area audited? X			
compared work  A quant	pany has limited s s. The parts and s areas will be sep ality assurance pe records.	shops which will be mo supplies will also have parated and be able to t erson has been placed Paper and electronic h	loor space for spares a pre secure and have the increased floor space a function on a non-interf in the maintenance sys- tence there is very little	eir own designated and security. The ference basis. stem to oversee work			

**TOPS Member: Sundance Helicopters** 

Н.		MAINTENA	NCE PERSONNEL			
1. 1	l Non-compliance with TOPS Standards	2. Areas for improvement	3. Meets TOPS standards	4. Exceeds TOPS stand	lards	
		X X				
1.	1. Mechanic qualifications, staffing and crew rest  Area audited?					
2.	2. Mechanic training and documentation  Area audited? X  Comments: Maintenance personnel have EuroCopter training each year. Training is					
doc	umented and is ge	enerally 40 hours per y	/ear. This training is do	ne on site.		

**TOPS Member: Sundance Helicopters** 

I.		GROUND SU	PPORT PERSONNEL		14 A		
	Ion-compliance with TOPS Standards	2. Areas for improvement	3. Meets TOPS standards	4. Exceeds TOPS stand	ards		
		X	X				
1.	Training and docum	Area audited?	X				
2.	Passenger briefing	Area audited?	X				
3.	Loading and unloading helicopters  Area audited?						
The One the o	orted and handled p side. passenger briefing observation during counter during the	by ramp personnel og g tape is excellent an g the audit was that briefing and one pilo ected on the spot an	th done and documented or pilots while outside the office the outside the office the outside the outside the outside the outside the passengers were called out his passenged changes in the procedule.	e building on the h. led out to register a ler during the briefi	ıt ng.		

**TOPS Member: Sundance Helicopters** 

Date:\_7/11-12/2011\_\_\_\_

J.	AREAS OF SPECIAL INTEREST							
Instr	Instructions: Comments are required for each area of special interest.							
1.	1. Flight Coordination – flight following systems/methods  Area audited?							
2.	Emergency Response Plan – plan suitability and training  Area audited							
3.	Ground Support Personnel – Passenger briefing system (live, PP, video, visual aids)  Area audited?							
4.	Maintenance – Quality Assurance methods scaled for the operator size  Area audited? X							
5.	Management – Process for passenger complaints about safety or safety of flight issues, including follow up procedure.  Area audited? X							

Comments: Items 1 thru 4 previously covered in this report.

There is a system in place where passengers and employees can bring problems, complaints or situations to the attention of Safety and Management. Negative items are acted upon and brought to a successful conclusion.

11

K.	BASES VISA		SITED	
	Location	Manager	Date	
	KLAS	Kurt, Barton	7-11-11	
	Grand Canyon West	Ray Medina	7-12-11	
<b>;</b> ,				
ļ.				

**TOPS Member: Sundance Helicopters** 

Date:\_7/11-12/2011\_\_\_\_

L.	FLIGHT OBSERVATIONS					
	Location	Tour	Date			
1.	KLAS	Twi-Light	7-11-11			
2.	Grand Canyon West		7-12-11			
3.						
Com fligh		ns were checked and in	compliance. Very standardized			

## TOPS INFLIGHT OBSERVATION GUIDELINES

The following are areas for review and evaluation during In-flight Observations:

- 1. Manifesting, Briefing and Aircraft Loading
- 2. Ramp/Airport Operations
- 3. Takeoff and Landing
- 4. Cruise Flight
  - Routes
  - Terrain
  - Altitudes
  - Traffic
- 5. Offsite Landing Areas

**TOPS Member: Sundance Helicopters** 

TOPS AUDIT RECOMMENDATIONS, BEST PRACTICES AND DISCREPANCIES					
Instructions: Id	Instructions: Identify each item as a discrepancy, recommendation or best practice				
ITEM	RECOMMENDATIONS, BEST PRACTICES AND DISCREPANCIES				
General Comments	There are no outstanding negative items				
Safety	The company has secret shoppers that are experienced in aviation ride along and report their findings on a quarterly basis. The passengers are unknown to the employees they come in contact with.				
Safety	NOTE: It was suggested that TOPS adopt a standard TOPS SMS program dealing with all tour subjects. TOPS is a safety orientated group and I feel this suggestion warrants discussion				
Flight Opns	The company uses secret shoppers at a minimum of once a quarter to identify problems is they exist. These shoppers are aviation savvy and are reliable. Also searches of U-Tube bring out some interesting items to be investigated				
Flight Opns	The company uses secret shoppers at a minimum of once a quarter to identify problems is they exist. These shoppers are aviation savvy and are reliable. Also searches of U-Tube bring out some interesting items to be investigated				
Maintenanc e	Maintenance personnel have EuroCopter training each year. Training is documented and is generally 40 hours per year. This training is done on site.				
Ground Support Personnel	One observation during the audit was that the passengers were called out to register at the counter during the briefing and one pilot called out his passenger during the briefing. These items were corrected on the spot and changes in the procedures have been made, there is no outstanding finding.				
A					

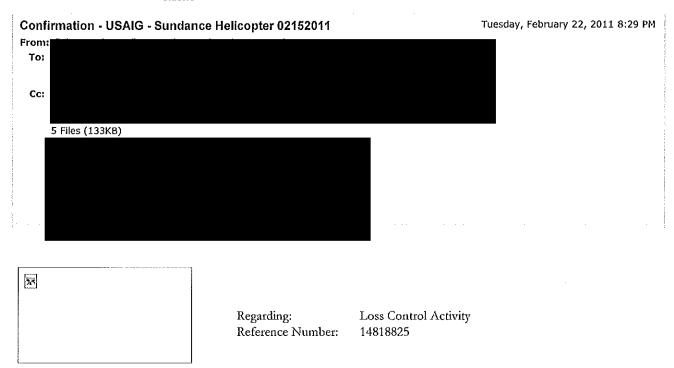
<b>TOPS Member: Sundance Helicopters</b>			Helicopters		Date:_7/11-12/2011
			OUT-BR	T C	FING DATE:
	N	lame			Title
	Kyle F	Reynolds			Director of Maintenance
	Lou	is Hall		Training Captain	
	Kurt	Barton		Director of Operations	
	Bur	Boyd		Chief Pilot	
			Print list of all Opera	or j	personnel present
		,	TOPS AUDI	Γ]	RESULTS
	. X	Recomme	nded for TOPS m	en	nbership
AUDIT RESULTS			nded for TOPS m to TOPS standard		nbership (After items listed above have been
					membership (Operator does not meet TOPS anded.) See attached list of discrepancies
OPERATOR REPRESENTA	TIVE:		SIGNATURE:		
			NAME:		
					Please Print
			TITLE:		
					Please Print
TOPS AUDITOR: SIGNA		SIGNATURE:			
			NAME.		Vounon Albout

FOR INTERNAL US	E ONLY	
Approved by the Membership Review Committee		
	Signature	Date
Approved by the TOPS Board of Directors		
	Signature	Date

Findings, comments and narrative to be provided in Audit Report to be submitted with this audit form.

Please Print

# YAHOO! MAIL



### Dear Larry:

This is a confirmation of the lunch appointment with Mike Flaherty (Director of Safety) and John Grob (Broker) on February 1<sup>st</sup> to review the Safe Performance and Conditions Standards (SPCS) assessment, which is required for all USAIG clients. Mike is currently implementing the SMS program through the coming year.

The attached SPCS Assessment provides a score to prioritize the critical risks and focus the loss control activities. Although the business is not a Fixed Base Operation (FBO), the assessment is the closest match for all USAIG clients. The Maintenance, Repair and Overhaul assessment is also included for the maintenance hanger. A confirmation email was sent on February 15<sup>th</sup> to provide the requested 2011 Seminar and Webinar brochures.

### **CONCLUSIONS:**

In the assessment, each critical risk is scored from 1 to 5 based on the frequency that the task is performed, likelihood for an incident, and severity of the potential injuries. The scores are multiplied, and the higher the score, the greater the critical risk to the employees.

For FBO, the highest risk is Aircraft Marshalling with a score of 18. For the maintenance hanger, the highest risk is Working on Ladders with a score of 27 and Working on Top of Aircraft at 18. The risks are described below.

### DISCUSSION

2010 has been a banner year for the helicopter tour company. There are no temporary or seasonal pilots used over the past year. An effective control for the pilots is the ability of the lead pilot to cancel the sightseeing trips due to acclimate weather. The pilots are still paid for the day but try to avoid canceling trips to encourage business. The following critical behaviors were reviewed.

<u>Aircraft Marshalling</u>: Usually a lead pilot performs the air marshalling and ramp control duties. The air marshall stands on the tarmac to direct the aircraft using the aviation radio. They take turns with the duty and participate in annual training to review the procedures. Employees on the tarmac wear bright orange vests and safety glasses for protection.

Working on Ladders: Multiple ladders are used when removing the blades from the helicopters. The blades are very fragile so great care is taken to handle the parts.

Working on Top of Aircraft: Movable stairs are used to access the top of the helicopters. No fall protection is worn when standing on the aircraft.

Other risk tasks were also discussed. The only baggage handling that occurs is the lunch kits that are loaded into the helicopter cargo area. For refueling, an FBO is contracted at McCarran. No additional refueling occurs at the Grand Canyon West airport if flying straight back to Las Vegas. Otherwise, a FBO is utilitized. The GCW staff is flown to the airport and back every day. The operations have recently been moved from the Sky Bridge ticketing area to the GCW airport. In addition, the helicopter fuel tanks are plastic and do not require welding if a repair is needed. The only paint operations that are performed are touch up only.

Thank you for your time and assistance during my visit. Please let me know if there is anything we can assist you with.

[F]	

Ron Klapperich, CSP, CHST

Senior Consultant

Loss Control Advisory Services

■ Liberty Mutual Group, Las Vegas NV

Office: Email:

Sincerely,

Helping People Live Safer, More Secure Lives.

This e-mail, and any attachments thereto, is intended only for the use of the addressee or addressees named herein and may contain legally privileged and/or confidential information. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution or copying of this e-mail, and any attachments thereto, is strictly prohibited. If you have received this e-mail in error, please notify me via return e-mail and via telephone at 702-540-2759 and permanently delete the original and any copy of any e-mail and any printont thereof.

Our loss control service is advisory only. We assume no responsibility for management or control of customer safety activities nor for implementation of recommended corrective measures. This report is based on information supplied by the customer and observations of conditions and practices at the time of the visit. We have not tried to identify all hazards. We do not warrant that requirements of any federal, state, or local law, regulation or ordinance have or have not been met. Please be advised that you may be selected to complete an electronic customer survey for services performed. Completing the survey is voluntary. If you wish not to participate, simply delete the e-mail.



# Safe Performance and Conditions Standards (SPCS) Assessment for Critical Risks



# Class of Business: Fixed Base Operations

Motivation	Capability	Environment	Critical Risk	Work Activity
RISK ITOOX	Saverny	Common	O Carendary (Was a Was Coll to Sent) (Susanbara	
Perform and record routine observations of de-long to reinforce safe behaviors. Use of observation data to measure performance and set improvement goals.	Writen operations and safety protocols for de- icing.  Employees trained on the boom truck, aerial bucket, harness and laryard in accordance with the written protocols.  Current certification record of fail protection training exists and is used to authorize who is allowed to de-ice planes.  Supervisors trained to perform behavior observations.	Manufacturer of the boom truck has designated a safety harness action point in the serial lift bucket.  Safety harnesses and the off lanyards are provided to employees who de-los planes.  Observation form with critical expectations for delarg has been developed to define safe performance and conditions standards.	Falls from elevation	De-icing Operations
RAUGHO,	0	0	0	Work Activity
Incentive system for awarding observed safe work behaviors. Reinforce work at a controlled pace when latching or unlatching container locks.  Bry Index	dous footing within p safely into the ching clips.	Adequate lighting. Employees wear feather, slip resistant work boots. Employees wear knee and shin guards. I thelibood	Boulses and cuts to ramp agents who slip and fall Adequate lighting, on roler boals, guides, clips and holes while Employees wear Is working with the bulk cargo pit of larger (e.g. boots, Booling 747) aircraft. Employees wear Is Fronzierov (resp. 0.16 for task is NIA)	Working within Largo Aircraft Cargo Pits
Motivation	Capability	Environment	Critical Risk	Work Activity
Risk Index		Likelihood	Frequency (use 0 if job task is N/A)	
Motivation  Perform and record routing observations of baggage handling to reinforce safe schawlors. Use of observation data to measure performance and set improvement goals.	Capability  New file training on baggage handling includes technique to move feet with load cantered between toes.  Employees get help for heavy loads.  Written protocol for baggage handling.  Promote stretching exercises between shifts.  Supervisors trained to perform behavior observations.	Environment  Corresyor belt is atmeat knee height.  Corresyor belt is atmeat knee height.  Provide protable "roller corresyor" or a metal side grossover to corresyor belt to eliminate litting.  Observation form with critical expectations for baggage handling has been developed to define safe performance and conditions standards.	Central Risk  Strains to guest ticketing agents performing transger of baggage from bagwell or scale a the ticket counter onto the conveyor bot behind them.	Work Activity Baggage Handling:
Risk Index	Severity	Likelihood	Frequency (use 0 if job task is N/A)	
Maintain brisk but not a chaotic paco between flights to load/unload. Incentive system for awarding observed safe work behaviors. Perform and record routine observations of baggage handling to reinforce safe behaviors.  Use of observation data to measure performance and set improvement goals.	Written protocoal for baggage handling. Promote stretching exercises between flights and shifts. Promote safet lift awareness at pre-shift briofing meetings. Supervisors trained to perform behavior observations.	Conveyor belt ext hold listelf. Knoe pads are av creuched position Observation form baggage handling safe performance	erforming conveyor into the	Boggage Handling
Motivation	Capability	Environment	Critical Risk	Work Activity
Risk Index	Sevently Sevently	Likelihood	Frequency (use 0 if job task is N/A)	
Motivation  Maintain brisk but not a chaolic pace between flights to load/unload: incentive system for awarding observed safe work behaviors. Perform and record routine observations of beggage handling to reinforce safe behaviors. Use of observation data to measure performance and set improvement goals.	Capability Written protocol for baggage handling. Promote stretching exercises between flights and shifts. Promote safe lift awareness at pre-shift briefing meetings. Supervisors trained to perform behavior observations.	Environment  Low point on belt conveyor is adjustable in height. Cart bottom at or near waist height for lowest lift point. Bags stacked on cart are shoulder height or lower. Observation form with critical expectations for baggage handling has been developed to define safe performance and conditions standards.	Critical Risk  Muscle strains to ramp agents performing transfer of baggage from cats to belt conveyor for loading baggage onto the plane.	Baggage Handling Baggage Handling
8			140-145	Total Employee Count:
Average Risk Index	2/1/2011	Date of Assessement:	Sundance	Company:

Risk Index 3	Soverity 1	Likelihood 1	Frequency (use of it job task is N/A)	THE PARTY OF THE P
	water at the start of the shift.			
Supervisors routinely ask employees about their hydration status and needs.	d to drink a bottle of	Provide emergency shower.		
Employees routinely look out for heat stress symptoms.	yamptoms of heat stress in themselves and their	, v	( एका अध्यक्ष क्ष स्थाम् ब्रुष्टााकः	•
Motivation	Capability	nt	Critical Risk	All operations on the ramp
	Ç	0	0	
Risk index	Seventty	Likelihood	Frequency (use 0 if job task is N/A)	
		coordinate the state of the sta		
		wrat order.  Critical valves and shut off devices at the tank farm are color-coded and labeled.  Electric motors at the fuel farm are higher than the top of the did along.		
behaviors. Use of observation data to measure performance and set improvement goals.	q dries	zzles are operableby-step procedures exist that define is need to be opened and shut and in	from tank farm.	
Perform and record routine observations of fueling operations to reinforce safe		ded. Id-man controls,	Potential explosion and burns/fatality while refueling aircraft or loading fuel onto tanker truck	Fueling Operations
Modvation	Capability	Environment	Ortical Risk	Work Activity
Risk Index	Severity	Likelihood	Frequency (use 0 if job task is N/A)	THE PERSON NAMED IN COLUMN TO THE PE
Perform and record routine observations of fueling operations to reinforce safe behaviors. Use of observation data to measure performance and set improvement goals.	top of refueling -wing larger e top or second n behavior	iliable for over- yees do not yees do not ond from top ection available g of under-tho- pectations for pectations safe adding safe	Fells from heights.	Fueling Operations
Motivation	Capability	Environment	Critical Risk	Work Activity
18	3	2	3	
000000000000000000000000000000000000000	observations Squarety	Likelihood	Frequency (uso 0 if lob task is N/A)	
Use of observation data to measure performance and set improvement goals.	rehaling duties.  To recertified at least every two at requires employees to signal the rind imployees that chocks have did and then signal the pilot that red to start engines.  If requires employees to signal the requires employees to signal the requires employees to signal the final stopping or initial starting at requires employees to be at least the final stopping or initial starting a plane.  The trained to size up the whole remained to serve the whole mentaling allocant.	ss are worn unless secured with a other clothing or paperwork can we the ability to fly to prevent towerent and thus uninversial saching into moving parts.  In set and enforced on the ramporn with critical expectations for craft has been developed to informance and conditions.		
Perform and record routine observation aircraft marshalling to reinforce sare		Employees wear prigntly colored vests. At night, employees use lighted beacons to	Stuck by mis-directed sircuat, parapularly propellers during marshalling and chocking. Also, think by other harms on the	
Motivation	Capabillty	Environment	Critical Risk	Sizerati Marchollico Work Activity
Risk Index	All affected employees are trained.	Likelihood 0	Frequency (use 0 if job task is N/A)	
Perform and record routine observations of de-cing and fueling to reinferce safe behaviors.  Use of observation data to measure performance and sot improvement goals.	Written procedures exist for the selection of PPE, thailing of employees, use and maintenance of the PPE. Supervisors trained to perform behavior observations.	Appropriate eye protection (PPE) is provided to employees.  Observation forms with critical expectations for de-cing and fueling have been developed to define safe performance and conditions state performance and conditions state performance.	Eye injuries from back spray of de-leing liquid and fuel in respective operations.	Do-lang and Fuoling Operations