

Detail of cockpit layout

ACCIDENT TO S61N, G-BEON, ON 16 JULY 1983 TRANSCRIPT OF ST MARY'S AERODROME (ATC) TAPE

GMT	FROM	MESSAGE
1114	ON	ER SCILLIES GOLF BRAVO OSCAR NOVEMBER
	ATC	OSCAR NOVEMBER
	ON	OSCAR NOVEMBER WE'RE LEVEL AT TWO THOUSAND FEET ON ONE ZERO ONE ZERO ESTIMATING YOU AT THREE EIGHT WITH TWENTY THREE PLUS THREE
	ATC	ROGER YOU'RE INBOUND TO SCILLIES OR TRESCO
	ON	ER SCILLIES FIRST THEN WE'LL GO AND HAVE A GO AT TRESCO
1120	ATC	ROGER(?) CORRECTION DELTA ALFA IS OPPOSITE DIRECTION AT FIFTEEN HUNDRED FEET THE REGIONAL ONE ZERO ONE ZERO QFE ALSO ONE ZERO ONE ZERO TEMPERATURE PLUS TWO ZERO
	ON	ONE ZERO ONE ZERO COPIED ECHO OSCAR
	DA	DELTA ALFA'S JUST PASSED MID POINT
1120	ATC	DELTA ALFA ROGER AN' COPY OSCAR NOVEMBER OPPOSITE DIRECTION AT TWO THOUSAND
	DA	AFFIRMATIVE

BETWEEN 1120 HRS AND 1123 HRS THERE WERE NO RELEVANT TRANSMISSIONS

	ATC	OSCAR NOVEMBER WHAT'S YOUR FLIGHT NUMBER FOR THIS ONE PLEASE
1123	ON	ER OSCAR NOVEMBER WE'RE NOT TOO SURE STANDBY
	ON	ER FIVE NINE ONE EIGHT
	ATC	ROGER
	ATC	ARE ALL THE PASSENGERS FOR SCILLIES OR SOME FOR TRESCO AS WELL
	ON	NO THERE'S SOME FOR TRESCO AS WELL
	ATC	YOU DON'T KNOW THE NUMBER .
	ON	ERM HANG ON I'LL HAVE A WORD WITH PENZANCE
1124	ON	OSCAR NOVEMBER IS PASSED LONG SHIPS
	ATC	OSCAR NOVEMBER ROGER
1126	ON	ER SCILLIES OSCAR NOVEMBER

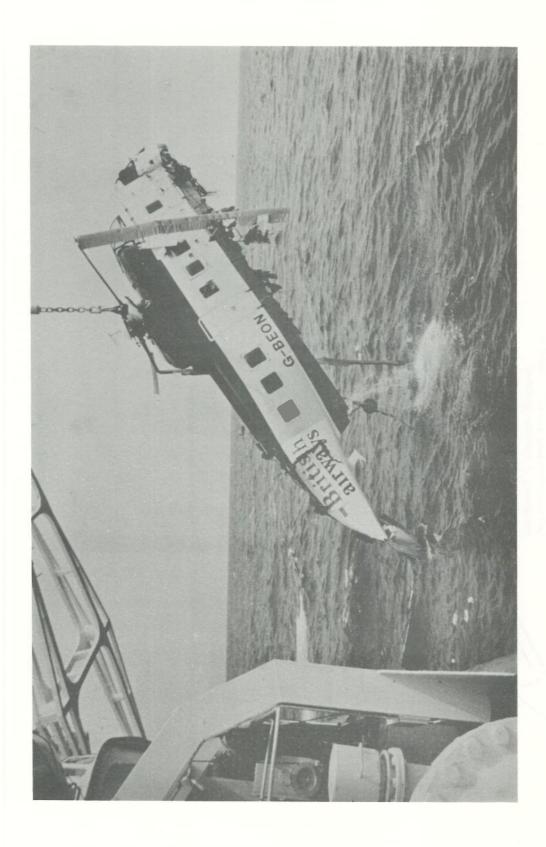
GMT	FROM	MESSAGE			
1126	ATC	OSCAR NOVEMBER			
	ON	ER WE HAVE ONE THREE PASSENGERS FOR ST I			FOR
	ATC	ROGER			
	ON	AND ST MARY'S OSCAR NOVEMBER WE HAVE PAREIGHTEEN MILES RANGE WE'RE DESCENDING T			
	ATC	OSCAR NOVEMBER THAT'S UNDERSTOOD ROGE	R		
	DA	DELTA ALFA'S LONG SHIPS			
	ATC	DELTA ALFA ROGER			
1130	ON	AND OSCAR NOVEMBER HAS PASSED MID POINT	AT ER FIVE F	HUNDRED	FEET
	ATC	OSCAR NOVEMBER ROGER			

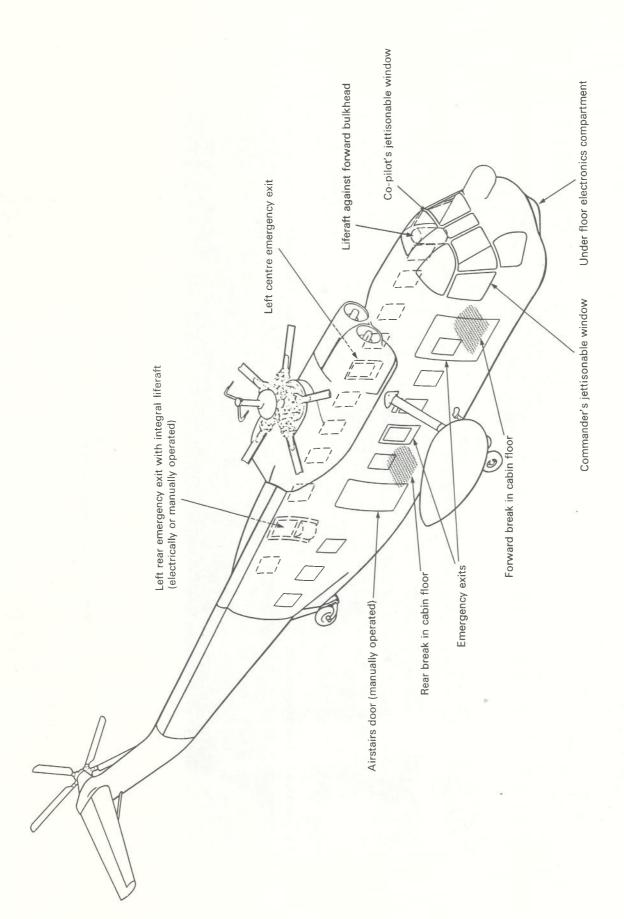
BETWEEN 1130 HRS AND 1132 HRS THERE WERE NO RELEVANT TRANSMISSIONS

	ATC	OSCAR NOVEMBER YOUR RANGE NOW
1132	ON	OSCAR NOVEMBER ER WE'VE GOT ABOUT SIX MILES TO RUN TO ST MARY'S
	ATC	ROGER
	PM 510	FIVE ONE ZERO TAXY
	ATC	FIVE ONE ZERO YOU'RE CLEAR TAXY RUNWAY TWO EIGHT THE QNH AT ST MARY'S ONE ZERO ONE FOUR
	PM 510	TEN FOURTEEN THANK YOU
	ATC	-AR NOVEMBER YOUR RANGE NOW
1133	ON	OSCAR NOVEMBER JUST UNDER FIVE MILES
	ATC	ROGER
	ATC	FIVE ONE ZERO WILL YOU BE READY READY FOR IMMEDIATE
	PM 510	AFFIRMATIVE
	ATC	CLEAR TO BACK TRACK TWO EIGHT
	PM 510	ROGER
	ATC	OSCAR NOVEMBER REPORT APPROACHING TWO MILES
	ON	OSCAR NOVEMBER

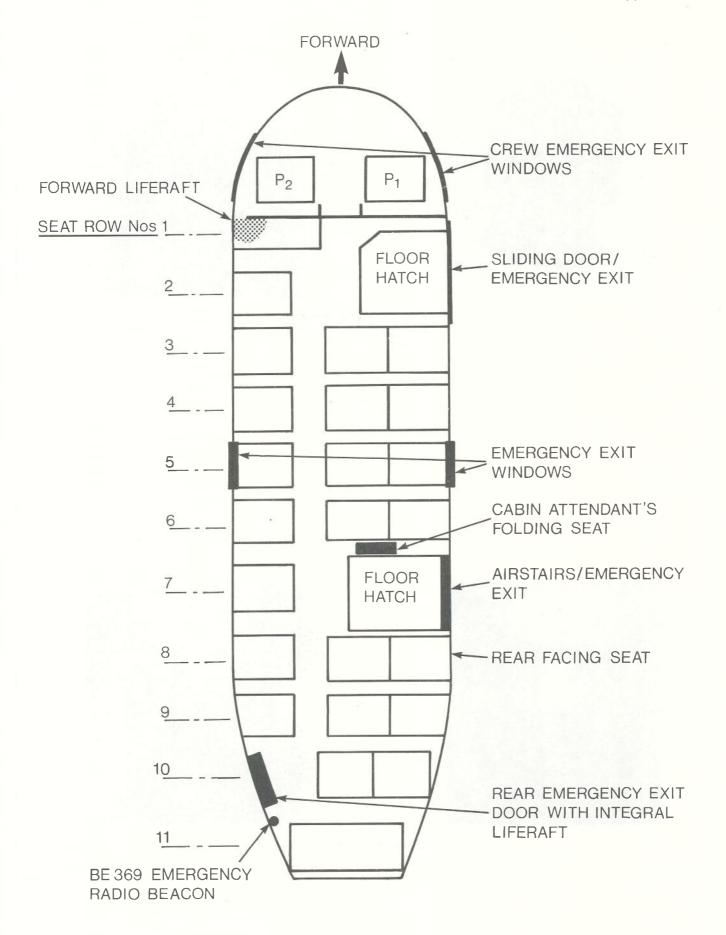
GMT	FROM	MESSAGE
1134	ATC	FIVE ONE ZERO CLEAR FOR TAKE OFF RUNWAY TWO EIGHT IT'S RUNWAY HEADING UNTIL YOU'RE THROUGH A THOUSAND FEET SURFACE WIND'S THREE ZERO ZERO DEGREES AT FIVE KNOTS
	PM 510	ROGER CLEAR TAKE OFF RUNWAY HEADING UNTIL THROUGH ONE THOUSAND THANK YOU
	ON	AND OSCAR NOVEMBER IS COMING DOWN TO TWO MILES
	ATC	CONTINUE THE APPROACH RUNWAY TWO EIGHT SURFACE WIND'S THREE ZERO ZERO DEGREES AT FIVE KNOTS QFE ONE ZERO ONE ZERO
	ON	-CAR NOVEMBER ONE ZERO ONE ZERO
1135	ATC	OSCAR NOVEMBER IS CLEAR TO LAND THREE ZERO ZERO DEGREES AT FIVE KNOTS
1136	PM 510	FIVE ONE ZERO IS TURNING ON COURSE
	ATC	ROGER FIVE ONE ZERO WHAT LEVEL ARE YOU CLIMBING TO
	PM 510	FIVE ZERO
	ATC	REPORT LEVEL PLEASE
	PM 510	ROGER
1138	ATC	OSCAR NOVEMBER SCILLIES
	ATC	GOLF BRAVO ECHO OSCAR NOVEMBER SCILLIES
	ATC	GOLF BRAVO ECHO OSCAR NOVEMBER SCILLIES
1139	ATC	BRYMON FIVE ONE ZERO SCILLIES HOW DO YOU READ
	PM 510	FIVE ONE ZERO FIVE BY FIVE

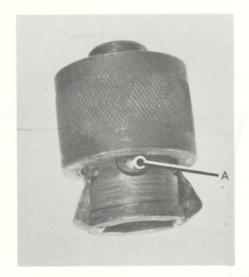


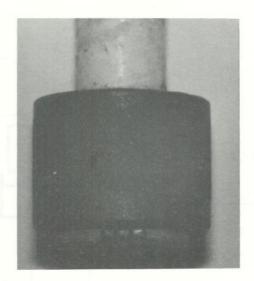




Sikorsky S6IN layout

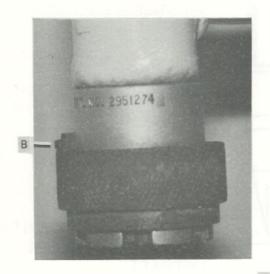


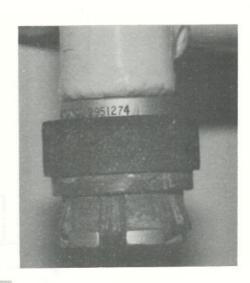




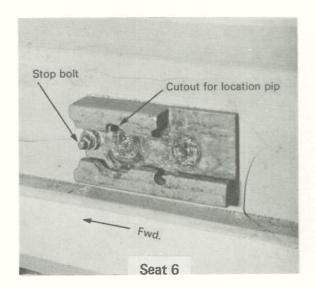
Non-positive Locking Fitting

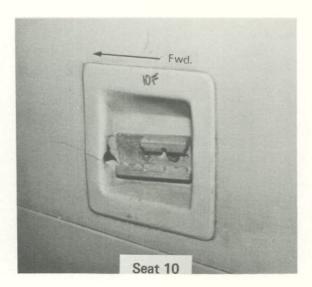
A=Collar positioning plunger B=Collar lock plunger



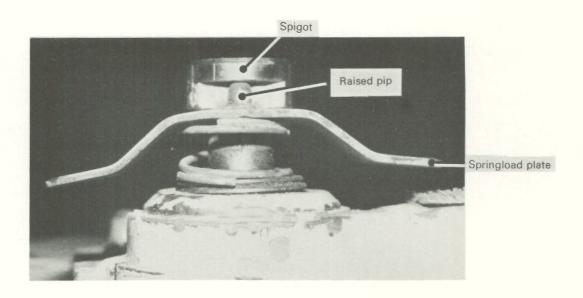


Positive Locking Fitting





Comparison of seats 6 and 10 forward sidewall fittings



Plan view of typical sidewall spigot and locating plate

EXTRACTS FROM THE BAH OPERATIONS MANUAL

1. Volume V, Section 3, paragraph 32.4.5, referred to the ANO Rule 23 and stated that:

"A helicopter flying outside Controlled Airspace at or below 3000 feet amsI shall remain clear of cloud and in sight of the surface OR"

Volume V, Section 3, paragraph 32.6.1.2 Flights under VFR, stated that:

"Flight will not be commenced or continued over the sea unless the minimum cloud ceiling en-route is 300 feet above the water and the forward visibility is not less than 900 metres."

Also that:

3. Volume V, Section 3, paragraph 7.4.1 defined the minimum over-sea flight altitude:

Volume V, Section 4, paragraph 1.3.1 Normal Route Operation, laid down the duties of S61 crews during the cruise and descent. It was relevant to both VFR and IFR operation. Relevant extracts are as follows:

"Cruise

P2 will navigate and maintain fuel monitoring.

P2 will record and pass to the Captain Met Reports.

Before reaching point of descent Captain will brief P2 on radio aids to be selected. He will ensure that P2 is conversant with let down, overshoot procedure and landing limits.

Descent and Initial Approach.

Captain will handle aircraft, maintain communications and initiate drills.

P2 will tune and identify navaids as required.

Captain will cross check.

P2 will record and monitor compliance with ATC instructions.

P2 will assist with courses and ETA's as requested by the Captain.

Final Approach.

Captain will handle aircraft, maintain communications and initiate drills.

P2 will tune and identify navaids as required. Captain will crosscheck.

P2 will record and monitor compliance with ATC instructions.

P2 will monitor all instruments and handle engine controls as required.

P2 will maintain the correctness of the approach and inform the Captain if there are any discrepancies.

Approaching Decision Height.

P2 will call '100 feet above' at Decision Height plus 100 feet.

Captain will prepare for overshoot.

P2 will call 'Visual Contact' as soon as he is sure that there is sufficient visual reference to enable a landing to be made.

Captain will look ahead and complete the approach and landing visually.

At any point approaching Decision Height, if the Captain decides to discontinue the approach, he will call 'Overshooting' and carry out the overshoot manoeuvre."