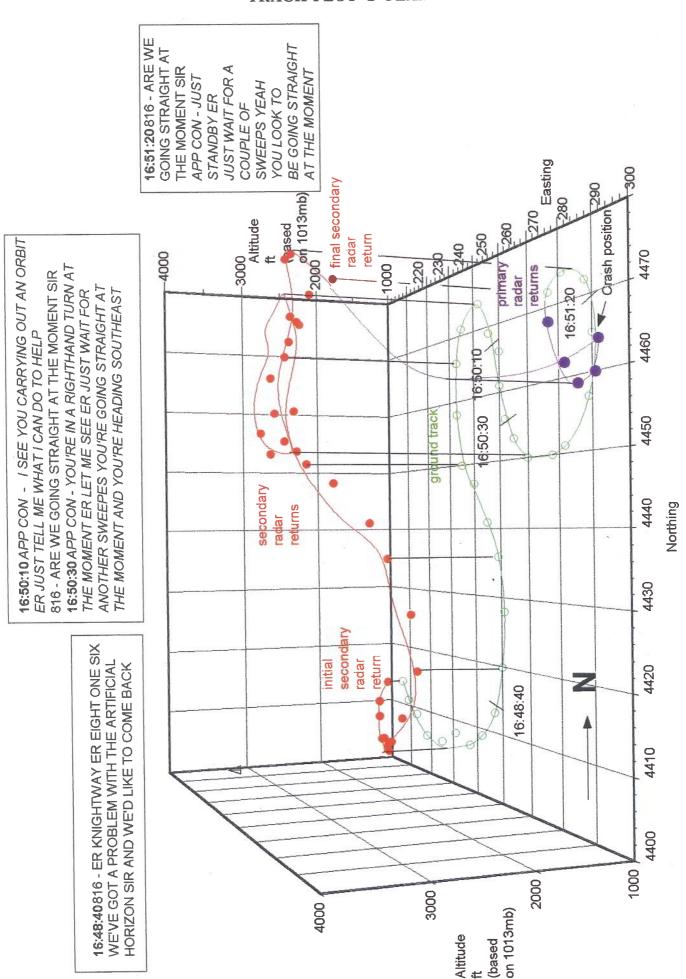
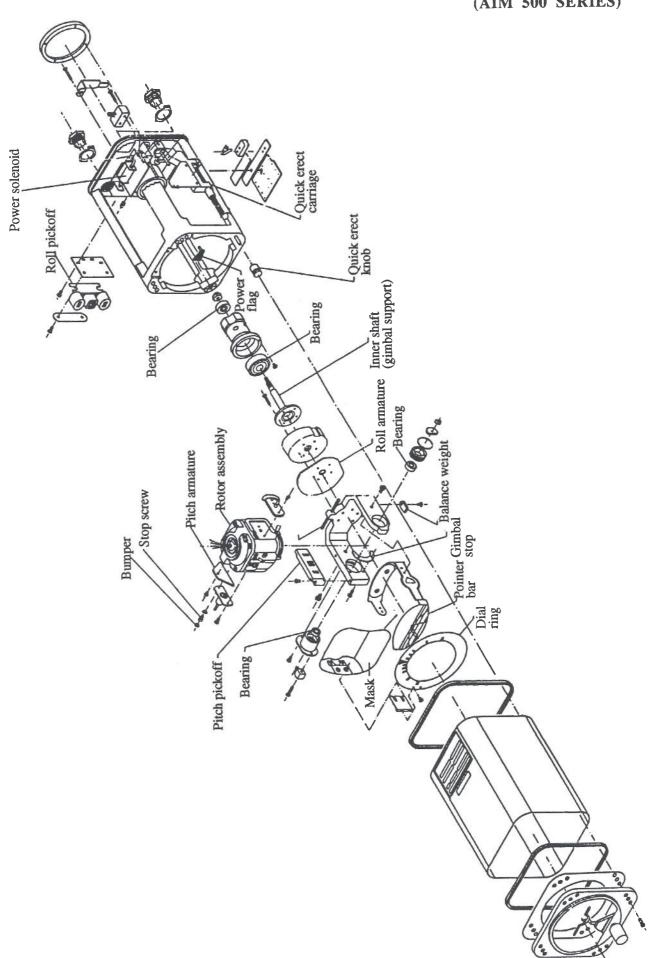
TRACK PLOT G-OEAA



APPENDIX B

TYPICAL ARTIFICIAL HORIZON (AIM 500 SERIES)



AIR TRAFFIC CONTROL

CONDENSED TRANSCRIPT OF COMMUNICATION BETWEEN LEEDS BRADFORD ATC AND KNIGHTWAY 816 [G-OEAA]

Key:	Key: Plain typescript = First officer of G-OEAA Italic typescript = ATC		
	(*)	= time signal as shown on left hand column	
Aerodrome Control 120.300 Mhz			
1641:1	10	LEEDS TOWER GOOD EVENING ITS THE KNIGHTWAY (*) EIGHT ONE ER SIX REQUEST START	
		KNIGHTWAY EIGHT ONE SIX GOOD EVENING START UP APPROVED RUNWAY THREE TWO FOR DEPARTURE CORRECTION RUNWAY ONE FOUR FOR DEPARTURE	
1641:2	20	COPIED START APPROVED EIGHT ONE SIX (*)	
1642:2	20	LEEDS TOWER (*) KNIGHTWAY EIGHT ONE SIX FOR TAXY	
		KNIGHTWAY EIGHT ONE SIX HARD RIGHT TURN TAXY TO HOLDING POINT XRAY	
1642:3	30	HARD RIGHT HOLDING POINT XRAY KNIGHTWAY EIGHT ONE SIX(*)	
		KNIGHTWAY EIGHT ONE SIX ENTER BACKTRACK LINE RUNWAY ONE FOUR	
1644:1	10	ENTER BACKTRACK LINE UP ONE FOUR KNIGHTWAY (*) EIGHT ONE SIX	
1645:	10	KNIGHTWAY EIGHT ONE SIX CLEARANCE	
		GO AHEAD EIGHT ONE SIX	
1645:2	20	EIGHT ONE SIX YOUR EVENTUAL ROUTEING WILL BE NEWCASTLE FOR ABERDEEN AFTER DEPARTURE MAINTAIN RUNWAY (*) HEADING UNTIL DIRECTED CLIMB FLIGHT LEVEL NINE ZERO SQUAWK ONE FOUR SIX TWO	
1645:	30	OUR EVENTUAL ROUTEING WILL BE (*)NEWCASTLE ABERDEEN CLIMB RUNWAY HEADING TIL ADVISED CLIMB FLIGHT LEVEL NINE ZERO AND SQUAWK ONE FOUR SIX TWO	
1645:	40	KNIGHTWAY EIGHT ONE SIX AFFIRM SURFACE WIND IS ONE TWO ZERO FIVE KNOTS CLEAR TAKE (*) OFF	
		CLEAR TAKE OFF KNIGHTWAY EIGHT ONE SIX	

1646:50 (*) EIGHT ONE SIX ROLLING

ROGER KNIGHTWAY EIGHT ONE SIX

1648:40 ER KNIGHTWAY ER EIGHT ONE SIX WE'VE GOT A PROBLEM WITH THE ARTIFICIAL HORIZON SIR AND WE'D LIKE TO (*) COME BACK

ROGER TURN LEFT RADAR HEADING THREE SIX ZERO

LEFT RADAR HEADING THREE SIX ZERO KNIGHTWAY EIGHT ONE SIX

1648:50 KNIGHTWAY EIGHT ONE SIX (*) STOP CLIMB AT ALTITUDE THREE THOUSAND FEET Q N H ONE ZERO ZERO TWO

STOP CLIMB AT THREE THOUSAND Q N H ONE ZERO ZERO TWO KNIGHTWAY EIGHT SIX

1649:00 (*) EIGHT ONE SIX CONTACT APPROACH ONE TWO THREE DECIMAL SEVEN FIVE

TO APPROACH ONE TWO THREE SEVEN FIVE KNIGHTWAY EIGHT ONE SIX

Approach Control 123.750 Mhz

1649:50 KNIGHTWAY EIGHT ONE SIX LEEDS DO YOU READ

1650:00 EIGHT (*) ONE SIX GO AHEAD

KNIGHTWAY EIGHT ONE SIX SIR I DON'T WANT TO ADD TO YOUR WORK LOAD BUT IF YOU JUST ER SQUAWK ZERO FOUR TWO THREE PLEASE WHEN YOU'VE GOT A MOMENT

1650:10 ZERO FOUR TWO (*) THREE EIGHT ONE SIX

I SEE YOU CARRYING OUT AN ORBIT ER JUST TELL ME WHAT I CAN DO TO HELP

ARE WE GOING STRAIGHT AT THE MOMENT SIR

- 1650:30 YOU'RE IN A RIGHTHAND TURN AT THE MOMENT ER LET ME JUST SEE (*) ER JUST WAIT FOR ANOTHER SWEEP YES YOU'RE GOING STRAIGHT AT THE MOMENT AND YOU'RE HEADING SOUTHEAST
- 1650:40 ER RADAR RADAR VECTORS SLOWLY BACK TO ONE FOUR THEN SIR (*) PLEASE

RADAR BACK TO ONE FOUR OKAY THEN TURN RIGHT HEADING THREE FOUR ZERO

RIGHT THREE FOUR ZERO KNIGHTWAY EIGHT ONE SIX

IF YOU'RE GOING LEFT CONTINUE LEFT TURN DON'T STOP IT FOR ME 1651:00 YOU CON- CAN CONTINUE GOING LEFT HEADING (*) THREE THREE ZERO LEFT THREE THREE ZERO KNIGHTWAY EIGHT ONE SIX ARE WE GOING STRAIGHT AT THE MOMENT SIR 1651:20 ER JUST STANDBY ER JUST WAIT FOR A COUPLE OF SWEEPS YEAH YOU LOOK TO BE GOING STRAIGHT AT THE MOMENT (*) ANY REPORTS OF THE TOPS SIR 1651:30 NOTHING REPORTED BUT I'VE GOT A DEPARTURE JUST GONE I'LL CALL HIM 1651:40 GOLF GOLF OSCAR LEEDS YOU (*) MIGHT BE ABLE TO HELP ME WHA- ER WHAT'S THE CLOUD LIKE AT FOUR THOUSAND G-BAGO ER WE'RE STILL IN CLOUD AT FOUR THOUSAND AND WE'RE QUITE HAPPY TO CLIMB TO FIND THE TOPS FOR YOU IF YOU LIKE (*)GOLF OSCAR YES OKAYI F YOU WOULDN'T MIND DOING THAT 1651:50 PLEASE LET ER DONT COMPROMISE YOURSELF LET ME KNOW IF THERE'S ER THAT IF YOU GET YOURSELF INTO TROUBLE WILL YOU DO THAT CARRYING OUT A RIGHT HAND ORBIT IN YOUR PRESENT POSITION PLEASE GOLF OSCAR KNIGHTWAY FIGHT ONE SIX LEEDS DO YOU READ 1652:10 KNIGHTWAY EIGHT ONE SIX KNIGHTWAY EIGHT ONE SIX LEEDS DO YOU READ KNIGHTWAY EIGHT ONE SIX KNIGHTWAY EIGHT ONE (*) SIX LEEDS DO 1652:30 YOU READ

APPENDIX D

DIAGRAM SHOWING WRECKAGE DISTRIBUTION

Key:	
1	Main wreckage comprising fuselage, fin and rudder, right tailplane, left wing, left engine, right engine and propeller
2	Right wing torque box outboard section
3	Right wing leading edge mid-section
4	Right wing leading edge outboard section
5	Right engine lower cowling including intake
6	Right aileron
7	Right tailplane
8	Right elevator outboard section
9	Right elevator mid- section
10	Right elevator inboard section
11	Left elevator outboard section
12	Left aileron outboard section
13	Left wingtip (approx. half)
14	Fuselage skin panel
15	Right wing aileron shroud
16	Right wingtip
17	Piece of right wing/fuselage fairing
18	Right hand nacelle aft fairing
19	Left propeller
20	Right propeller and reduction gearbox
21, 22, 23 & 24	Pieces of fuselage cut by right propeller
25	Right propeller blade tip
26	Right overwing exit
2.7	Left overwing exit

100 FUEL CONTAMINATION AREA OF BURNING AND FIELD BOUNDARY MAIN WRECKAGE PAPER, LIGHT DEBRIS SCALE (metres) AROUND 50 UP TO 3 Km + 0 G-OEAA DISTRIBUTION OF MAJOR ITEMS OF WRECKAGE + + + IMPACT MARKS [6] J C + □ 25 • **S** ₀ 26 12 24 0 ⊡ 7 + 22 10 □ 23 1 0 0 + 早 + + +

D-2

ARTIFICIAL HORIZONS - TIMES TO FAILURE

