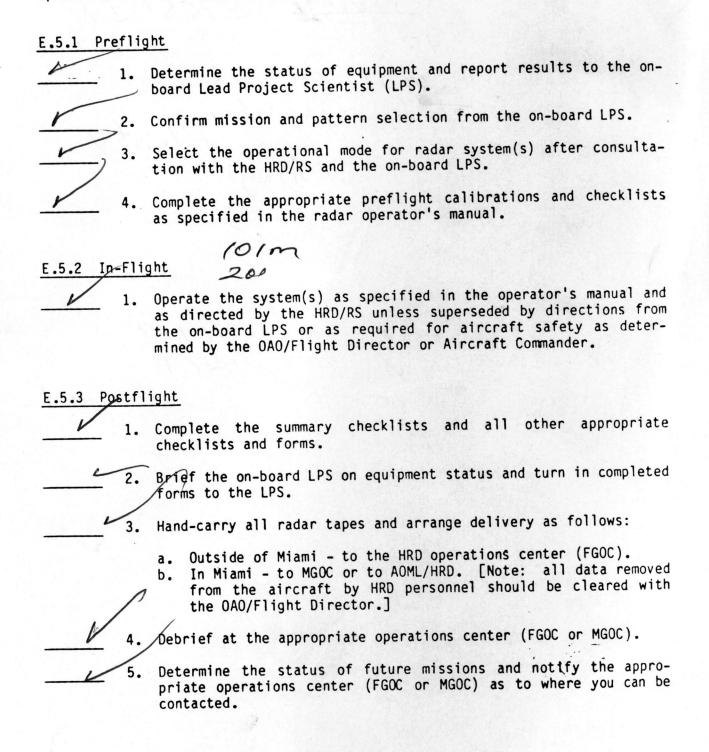
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AUG 13 1987

E.5 Radar/Airborne Doppler Radar Scientist (On-board)

The on-board Radar Scientist (RS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)





Form E-5 Page 1 of 4

Radar Scientist Checklist

Flight ID 8708/31/ 8708/37/
Aircraft # 43
operators N. Borst, M. Black
Radar Tech Terry Scholeter
Number of digital magnetic tapes on-board Dlenty
Number of tape labels on-board Enough
Component systems up and checked:
RDSCDSC1
Computer DSC2
DMTR1DMTR2
LF
TA
Time correction between radar time and digital time
Radar Postflight Summary
Number of digital tapes used DMTR 1
DMTR 2
Significant recorder downtime:
DMTR 1 None Radar LF DMTR 2 Radar TA
DMTR 2Radar TA
Other problems: Wond
1861 & 1 DUA

IGHT_	08/37 AUG 13 19	AIRCR	AFT 4/5		OPERATOR M. Black	SHEET / OF /
e #	Time On	Time Off	Source TA	Radar	Comments	
7/	13:32	13:50			13:31:49-13:49:53	Painted F
				1 8 1		
						A
,		X				
1						
			-			
-	-	-	-			

Form	E.	- 5	
Page	3	of	4

HRD RADAR LOG

OPERATOR					
SHEET	OF				

RADAR	DOMN-	TIME	LOG

1TEM	TIME DOWN	TIME UP	PROBLEM	

August 13,1987 870813 II

E.5 Radar/Airborne Doppler Radar Scientist (On-Board)

The on-board radar scientist (RS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

E.5.1	Prefl	ight
V	_ 1.	Determine the status of equipment and report results to the on-board lead project scientist (LPS).
_/	_ 2.	Confirm mission and pattern selection from the on-board LPS.
<u> </u>	_ 3.	Select the operational mode for radar system(s) after consultation with the HRD/RS and the on-board LPS.
_/	_ 4.	Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.
E.5.2	In-Fl	ight
	_ 1.	Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.
E.5.3	Postf	light
	_ 1.	Complete the summary checklists and all other appropriate checklists and forms.
<u> </u>	_ 2.	Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
	3.	Hand-carry all radar tapes and arrange delivery as follows:
		 Outside of Miami - to the HRD operations center (FGOC). In Miami - to MGOC or to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO flight director.]
	4.	Debrief at the appropriate operations center (FGOC or MGOC).
_	5.	Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

Radar Scientist Checklist

Flight ID 870813 II
Aircraft # 43RF
Operators RADAR : BLACK, DORST, CRAWE DOPPLETE: GAMACHE
Radar Tech SCHRICKER
Number of digital magnetic tapes on-board Though
Number of tape labels on-board EMU64
Component systems up and checked:
RDSC DSC1
Computer DSC2 DMTP2
DMTR1DMTR2
Chuqey as LF R/T#
Chugey as LF R/T# Even. TA R/T#
Time correction between radar time and digital time
Radar Postflight Summary Defice
Number of digital tapes used DMTR 1
DMTR 2
Significant recorder downtime:
DMTR 1 Radar LF
DMTR 2 Radar TA
Other problems:

Form E-5 HRD RADAR TAPE LOG Form E-5 Page 2 of 4 FLIGHT AIRCRAFT____ OPERATOR_____SHEET__OF_ Source Radar Tape # Time On | Time Off TA LF Comments

Form	E-	-5	
Page	3	of	4

HRD RADAR LOG

OPERATOR		
SHEET	OF	-

RADAR DOWN-TIME LOG					
_ ITEM	_TIME_DOWN_	_TIME_UP_	PROBLEM		
			,		
			-		

ITEM LIST: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2

Form E-5 HRD DOPPLER RADAR TAPE LOG Page 4 of 4 OPERATOR GAMACHE SHEET L OF 1 FLIGHT 4708311 AIRCRAFT 43KP SOURCE* 1600 PRI= TAPE NO. TIME ON TIME OFF COMMENTS**(#pulses,scan rate, range) H PANGE: 38 km 1333 l 1350

^{*}Vertical, Horizontal, or Full Sweep Scan

^{** #} of pulses averaged (32,64,128,256); scan rate(Min,Max); range resolution(150m, 300m)