E.5 Doppler Radar Scientist (On-Board)

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

E.5.1	Prefligh	
	_ 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.
	_ 3.	Select the operational mode for radar system(s) after consultation with the HRD/DRS and the on-board LPS.
NA	4.	Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.
E.5.2	In-Fligh	
_ V	_ 1.	Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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	Postflig	ht
-	_ 1.	Complete the summary check lists and all other appropriate check lists and forms.
	_ 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:
		 a. Outside of Miami – to the HRD operations center (FGOC). b. 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.]
1	_ 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.

Doppler Radar Scientist Check List

Flight ID 9409241	The section of the se
Aircraft # N4312F	Steel 252 M S
Operators INILLOUGHT	
Radar Tech. LYNCH	
Number of digital magnetic tapes on boar	rd PLENTY
Number of tape labels on board	PLENT
Component systems up and checked:	
MARS^\	Computer
DMTR1	DMTR2
LF	R/T#
TA	R/T#
Time correction between radar time and	digital time
Radar Postfli	ght Summary
Number of digital tapes used:	DMTR12
	DMTR2
Significant recorder down time:	id Bloode Jannoeran, CFIH vd
DMTR 1 2028 - 2041	Radar LF
DMTR 2	Radar TA
Other problems: None	

HRD Radar Tape Log

Flight 8409241 Aircraft N4377 Operator LICLOUGHE Sheet 1 of Z

Tape #	Time On	Time Off	Comments
	1866	2028	OLIVIA VISIB. AT EXTREME RANGE
Ī	~1930	En Col Color	IP TRAK W -> 5
	1944		15-47 117-54 By 115 KT 950 mb
	1957		FASTING DOWNWIND LEG
	2005		FAST OFF TURN NE- + 9
	2019		15-62 117-67 & TIZAK NE 6-1
*	2028		PADAR DOWN
2	264 1	0055	RADAR UP
	2042		TRAIC 5 - 5
	2052		15-58 118-05 () TIZAKS (9-1
	2103		FASTING DOWNWIND LEG
	2110		FAST OFF TRAK NO - A &
	2123		16-02 118-06 TRAK NW 5-1
	2134		FASTING
	2145		FAST OFF TRAKE-AG
	2155		16-05 118-14 @ TRAILE 6-
	2208		TURN TRAK W + 6
	2223		16-09 118-17 & TRAKUS+
	2234		TURN TRAKE
	2238		WINGS LEVEL TRAKE-06
	22 49		16-10 118-22 6) TRAIS E - FP
	2300		FINAL POINT CLIMBING
	2332		TA OFF LF STILL ON

0055

RECOIZD OFF

HRD Radar Down-Time Log

Operator Ville Sileet of _	Operator	MILLOUGHBT	Sheet 2	of Z	-
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Item	Time Down	Time Up	Problem
COMP	2028	2041	HANG UP
		0-8010-	
	3.6.6.7.5.63		
And the same			
		3.416.6	1 TH 52

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.

245EP94 940924I OLIVIA MKFT F1785 6 1944 15-47 117-54 950mb LAST 6, 2249 16-10 48-22 MOTION 310/09 34 Albert CEUS FORMED ON W. SUDE, MOVED AROUND TO E SIDE, PASSING S OF OF b HIGHEST REFLECTIVITES 50 dBZ, MOTTLY 35, SOME 40. gound A LITTLE GRAUPELY ON ALC G& E SIDES. (UP TO ZOMIS) BROAD UPDRAFTS E SIDE OF ETE DOWND & BOUTEUR CHAS ON UNDER HIGHEST REPLECTUUTIES



