#### 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	
V	_ 1.	Determine the status of equipment and report results to the on-board lead project scientist (LPS).
V	_ 2.	Confirm mission and pattern selection from the on-board LPS.
V	_ 3.	Select the operational mode for radar system(s) after consultation with the HRD/DRS and the on-board LPS.
V	_ 4.	Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.
E.5.2	In-Fligh	t
	_ 1	Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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:
		<ul> <li>a. Outside of Miami – to the HRD operations center (FGOC).</li> <li>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.]</li> </ul>
	_ 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.

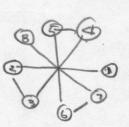
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# Doppler Radar Scientist Check List

Flight ID 94092	25 I	
Aircraft # N4317	F	
Operators _ LILLO	DUGHBT	
Radar Tech. LYNC	1-1	
Number of digital magnetic tapes on b	board_PLENTY	
	do	
Component systems up and checked:		
MARS	Computer	
DMTR1	DMTR2	
LF	R/T#	
TA	R/T#	
Time correction between radar time a	and digital time	
Radar Pos	stflight Summary	
Number of digital tapes used:	DMTR1	
	DMTR2	
Significant recorder down time:		
DMTR 1	Radar LF	
DMTR 2	Radar TA	
Other problems:		

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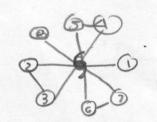
### HRD Radar Tape Log



Flight 9409751 Aircraft N4317F Operator NULLOUGHE Sheet of \_\_\_

Tape #	Time On	Time Off	Comments	10
1	25/1937	2219		
	1940		CONCENTRIC GREWALL? EXTIZEME RANGE PAST ON 10 RAM ON TA	
	1943	943	LF+ REWIND TAPEL	
7	1953		RECORDING RESTARTED ON TAPEL	
	955 30		FAST ON .	
	2023		IP, FAST OFF, W-6	0
	2032		18-58 120-03 6 TRAKW 6-	
	2048		FAST ON	(3
	2054		FAST OFF TRAK NE-DG	3
	2106		19-02 120-04 6 TIZAK NE	2
	2118		FAST ON TRAK NW	4
	2127		FAST OFF TRAK 8-09	(5
	2138		19-05 120-02 6 TRAK 5 6	
	2150		FAST ON TRAK NE	6
	2158		FAST OFF TRAK NW - 6	G
	2211		935 19-13 120-05 & TIZAK NW	
	2219		RADAR	Į Pis
2	2235	26 0200	RADARA RECOIRDING	(3)
	2237		TRAKE + 6	(
	2249		19-16 119-58 6 TRAKE	
	2300		FAST ON TRAK NUT	0
	2308		FAST OFF TRACKING SULAS	9
	2317		19-19 119-59 (5)	-

### HRD Radar Down-Time Log



Operator WILLOUGHBY

Sheet 2 of 2

Item	Time Down	Time Up	Problem
PADAIZ	2219	2235	WOULD NOTIZESET
DMTTZI	260058	260113	OPERATOIZ ERROIZ
		4	

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

## HRD Radar Tape Log

Flight 950925 Aircraft N4312F Operator WILLOUGH Sheet 2 of 2

2 2328 FAST ON TILT MAY HAVE BE 2337-35 TIZAK M + 9  2349 1924 1956 G  DOI'I TURN 180 TIZAK 5 + 9  DOI2 19-28 19-58 G TRAK E + P.V.  DOIS STATE CLIMB E OF G  DOIS PRODUCTION OFF  DOIO DING OFF	Гаре #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
2349  1924 11956 6  0011  TURN 180 TIRAL 5-15  0012  19-28 119-58 6 TRAK E-P.V.  0018  STATET CLIMB E OF 6	2	2328		FAST ON TILT MAT HAVE BEEN
0017  0017  19-28 119-58 0 TRAKE -> P.V.  0018  STATZT CLIMB E OF G  0058  THE RECORDING OF E		2337-39		TRAK MAD
0017  0017  19-28 119-58 9 TRAIC E + P. V.  0018  5TATET CLIMB E OF 9  0058  THE RECORDING OF E		2349		1924 11956 6
0018 STATET CLIMB E OF G		0011		TURNI 180 TIZAK 5-45
0018 STATET CLIMB E OF G		0012		19-28 119-58 O TRAIC E-P.V.
0113  RECORDING BACK ON  0200  RECORDING OFF				STATET CLIMB E OF 9
0200 RECORDING OFF		0058		BY ACCIDENT
0200 RECORDING OFF		0113		RECORDING BACK ON
		0200		recording off

Form	E	-5	
Page	3	of	3

Operator \_

### HRD Radar Down-Time Log

Sheet \_\_\_\_ of \_

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	37		
			11000
- 24	3 - A 51	a ev 4	
4.	- 27	to your "	
	-		
	*		
		ado e	

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.



