### 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.)

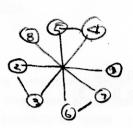
1. Determine the status of equipment and report results to the on-board lead proscientist (LPS).  2. Confirm mission and pattern selection from the on-board LPS.  3. Select the operational mode for radar system(s) after consultation with the HRD/I and the on-board LPS.  4. Complete the appropriate preflight calibrations and check lists as specified in radar operator's manual.	5.1 Pre	
3. Select the operational mode for radar system(s) after consultation with the HRD/I and the on-board LPS.  4. Complete the appropriate preflight calibrations and check lists as specified in	V	status of equipment and report results to the on-board lead project
and the on-board LPS.  4. Complete the appropriate preflight calibrations and check lists as specified in	V	and pattern selection from the on-board LPS.
4. Complete the appropriate preflight calibrations and check lists as specified in	V	ational mode for radar system(s) after consultation with the HRD/DRS rd LPS.
. Soci operator s manual.	<u> </u>	ppropriate preflight calibrations and check lists as specified in the manual.
E.5.2 In-Flight	5.2 In-F	
<ol> <li>Operate the system(s) as specified in the operator's manual and as directed by HRD/DRS, unless superseded by directions from the on-board LPS or as required aircraft safety as determined by the OAO flight director or aircraft commander.</li> </ol>		s superseded by directions from the on-board I PS or as required for
E.5.3 Postflight	5.3 Pos	ans and access 6. Transpire
1. Complete the summary check lists and all other appropriate check lists and form		ummary 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 LF		
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 aircr</li> <li>by HRD personnel should be cleared with the OAO flight director.]</li> </ul>		Miami - to the HRD operations center (FGOC).  MGOC or to AOML/HRD. [Note: all data removed from the aircraft
4. Debrief at the appropriate operations center (FGOC or MGOC).		
<ol> <li>Determine the status of future missions and notify the appropriate operations cen</li> <li>(FGOC or MGOC) as to where you can be contacted.</li> </ol>		atus of future missions and notify the appropriate operations center;) as to where you can be contacted.
2249 AT 1808H SHING SHING		AT 1808F REGISTER STATE OF THE
EAST OFF TRACKING OUT		FAST OFF TRACKING SULLEY

# Doppler Radar Scientist Check List

Flight ID 940925	T				
Aircraft # N4317F	Aircraft # N4317F				
Operators <u>LILLOL</u>	set the clause to equipment and reperture to the de-board in				
Radar Tech. LYNCH	ed metteo the soleem malino	S			
		202			
Number of digital magnetic tapes on boa					
Number of tape labels on board	90				
Component systems up and checked:	adar pparator's manual				
MARS	Computer	in-Flight			
DMTR1	DMTR2	<u> </u>			
Debotement LF end is a contratable lives -0.40-end	R/T#	<u>s</u>			
TA	R/T#	Fostilig <del>a.</del>			
Time correction between radar time and	digital time	3			
Radar Postf	light Summary				
Number of digital tapes used:	DMTR1				
	DMTR2				
Significant recorder down time:					
DMTR 1	Radar LF	<u> </u>			
DMTR 2	Radar TA	_			
Other problems:		•			

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# HRD Radar Tape Log



Flight 9409251 Aircraft N4317F Operator NULLOUGHIST Sheet of

Tape #	Time On	Time Off	Comments	1
1	25/1937	2219		1
	1940	son_end_da	CONCENTRIC ETEMPLE? PAST ON 10 RPM ON TA	
	1143	943	LF+ REWIND TAPEL	1
<u> </u>	1953		RECORDING RESTARTED ON TAPEL	
	955 30	r's marks.	FAST ON .	
	2023		IP, FAST OFF, W-S	0
	2032		18-58 120-03 6 TRAIL W	Carp
	2048		FAST ON	1
	2054		FAST OFF TRAK NE- 6	(
9	2106		19-02 120-04 6 TIZAK NE	(3)
	2118		FAST ON TRAK NW	6
	2127		FAST OFF TRAIL S-19	(
	2138		19-05 120-02 6 TRAK 5 6-	
	2150		FAST ON TRAK NE	(
	2158		FAST OFF TRAK NW +6	1
	2211	207300mg/ 5000	935 170-05 B) TIZAK NW	
4.	2219	e allationale e	RADAR	1
	2235	26 0200	RADARA RECOIRDING	1
	2237		TRAKE + 6	
	2249		19-16 119-58 G TRAKE	
	2300		FAST ON TRAK NUT	0
	2308		FAST OFF TRACKING SUNS	(
	2317		19-19 119-59 (5)	]

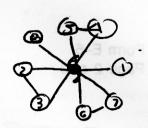
# HRD Radar Tape Log

Flight 950925 Aircraft N4312 Operator WILLOUGH Sheet 2 of 2

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
2	2328		FAST ON TILT MAT HAVE BEEN
	2337-39		TRAK M-B
	2349		1924 11956 6
	0011		TURN 180 MIZAR 5-8
	0012		19-28 119-58 9 TRAIC E- P.V.
	0018		STATZT CLIMB E OF 6
	००५8		BY ACCIDENT
	0113		RECORDING BACK ON
	0200		RECORDING OFF
			3

Form E-5 Page 3 of 3

#### HRD Radar Down-Time Log



Operator WILLOUGHIST

Sheet 2 of 2

Item	Time Down	Time Up	Problem
RADAR	2219	2235	WOULD NOTIZESET
DMTTZI	2600 58	260113	OPERATOIZ ERROIZ
BAT MO ( Alexandra)		SARCISTON ME	sea L
- Campanes :	a steme on and	n ca T e- pireuked	R58/30 F
	F		Computer Scar
OM		33 (7 km) 54(5 - 786-0	Spas
P 4 - 34P	1 MANY	io_TeA	ит# 2000
•		1257 75 E	(817) 3013
Tinga gorrea	a nagyasa rej	10 (4.4 95 (me 49)	gigital time
3 2-44	F (0) 30-1	gdar Paggil	shi Summary 8215
Number of c	a y y re nkartapes use		UMIRI OPIS
TVM VA	1 0	7 (0) (S) 7 (2) (1) (1) (1)	PDMTR2 TTXS
Significant re	adorder gown til	PSADA	7
-24/5			4067 EU 55 TO C 200
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Distriction of the Communication of the Communicati	1 1 8 8 B	a-Rin al-	
OTHER DECEMBER	PER NAME	this Ten	4 2800
	TESCASA TO	19 15	9.3

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