## 8

## E.5 Radar Scientist

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.3. I	Prenight
	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 on-board LPS.
	4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.
E.5.2	In-Flight
	<ol> <li>Operate the system(s) as specified in the operator's manual and as directed by the on- board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.</li> </ol>
	2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.
E.5.3	Post flight
	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 LPS.</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 AOC flight director.]</li> </ul>
	4. Debrief at MGOC or the hotel during a deployment.
	5. Determine the status of future missions and notify MGOC as to where you can be contacted.

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## **HRD Radar Scientist Check List**

	Flight ID: 02092 [ I
	Aircraft Number: 43
	Doppler Radar Operators:
	Radar Technician: T. Lynch, J. Smith
	Number of digital magnetic tapes on board:
	Component Systems Status:
	MARS Computer
	DAT1 DAT2
	LF R/T Serial #
	TA R/T Serial #
	Time correction between refer time and digital time.
	Time correction between radar time and digital time:
	Radar Post flight Summary
	Number of digital tapes used: DAT1
	DAT2
n.	Significant down time:
	DAT1 Radar LF
	DAT2 Radar TA
	Other Problems:
>	2139 LF frazo
	2353 - 100 n / mig
	2139 LF froze for a / mig 2353 - 0001 Tail Stopped

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	HRD Radar Tape Log	
Flight 02092 Aircraft 43	Operator Volge Sheet of	
LF RPM	TA RPM	

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
1	BN	1710	switched to FIAST. PRF 21
	YES	1739	Switcher to FIAST. PRF 21
		~0100?	
The state of	Langui amaza - Ima wa jagi, an		
37			
		A see a party	
<b>X</b>			
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0902211 020913\$I (2) H. ISIDORE HAIRSIN In Storm Po LPS: PBlack, Nishay, 1709: 2738 8929 AF fix, from 1500' 1003 mb Radar, WKstn, GB: P. Dodge BT19, CTP'S, CP'9: TISCOK, S. Quin 170150 T/O from Mac Dill 1800 Bird Smadsed Radome SD end of misson, Big Chunk of vadome (NOSED) off 50. No Sonder launched Sent TAIL PRE 2160. 4'5 Working 1818 descending to 8,000 phony LF mexsege to JG. Flew. back at 1000' to burn for fuel 182446 Sonder 22056 8404, Ed Walsh happy with his data. Should check nose camera v tape alter turn 1823 short good in ist, kpac for bird splat 1838 euc 50 mmi SW of NC 1952 hugh at MacDill boaring a 40 nmi wordsos. I also convective leature /inner eye maybe only 12 nmi across? 1836-HENGINA 12 emp #1 1845-1852 110 KTS / 18 41 02 1851 Bury dick some der solding... 1905 - we're descending to 1,000' Sent First LF composite

and the second second

0209211(2) 02092\I isi2. Kpac stades at 1940 2159 suppreaching strong rainburno 15 ms 1 2236 flying orrowno in 1957 of MSLP 946 mb popeorn - 140 nm E = 6 210 LF CMP 1940-7 1956 2004 2252 sent 3rd LF composite covering 2141-2147, 8 hows END 2021 for chuson 1956-2011 good composite rainbands on E side. M.IP 60,61 SENT at 2028 ASPL Saffer 34,35 2257 - we are at 23°48' 84°30/, cruising at 1000' - 2042 outlie the observe going about to 1000 again on NW stale again NE of storm but not for long. Beautiful sea surface? 2056 now dimbing back up WKSTN NOTE: The only thing 318 1513, Kpac - stude 2110 different today is that Eric Us 2129 or but in N PC was not turned on. Makes. eye for Juan & you wonder. carlos Ashes They were in a free & 2250-Started isi4, kpac for 1/ full BT. Then we head is last pass into eye. 0015 turn at 22391 87°11 E for the nortiost part of the for last puss to eyer 42 has already left the seenes a 2141 Enunded 3 soudes E expurall 0018 Deema like convection - including one large parts dinte has related around thu

02092120	0209221 H. ISIPORE
0026 - inside Barry hunting	LPS P Black 1/wkstn P Dodge
convection definishing	
on Weide Avour 0029 FX: 22°08'3 96'34'	Sondes Dodge/Goldenburg Brees. Judy Gray
	T/O from Mes Pill of 193255
949 w 2	after delay uniting for 42 to fix
	something (APU DOOR)
0037 Cambout	
2410 CANADOSÍTO. 2410 - 2434 - 2434	2036 - 1 just noticed that SQI/wind
X 110 X	was not selected to record!
1 1100 2419 - 2444 1 get the	changed and restorted tape.
	I probably forced up yesterdays
	tup. Complacency (and Dave J.)  ERIC'S hyptop is ON - and
	ERIC'S hyptop is ON - and
	we resented serial cable - so everything
beconsel it shows how so well and	seems to be working ok. If things
theo up in W yenroll	· start to go flaky on HP, EU's machine
	will be turned off
Landed 020/ UTC,	1.0501 1.07050/ 666/01 1.
	2054 at 23°53' 86°49' begin
	the descent to 5,000
	2101 - Cum one amuil start with TA
	2102 - at 5,000
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	Stant 2118 good,
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