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.5.1	Preflight
	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 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 Table 1
	1. 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.
	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
	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 LPS. 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.]
	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.

HRD Radar Scientist Check List

Flight ID: <u>03120</u> 6 <u></u> <u></u> T1	1-A-1	
Aircraft Number:		
Doppler Radar Operators:	stin	
Radar Technician: Lynch		
Number of digital magnetic tap	es on board:	
Component Systems Status:		
MARS	Computer	
DAT1	DAT2	
LF	R/T Serial # _	102
TA		102
Time correction between	en radar time and	
Number of digital tapes used: DAT1		
DAT2	1	
Significant down time:		
DAT1	Radar LF	
DAT2	Radar TA	
Other Problems:		
No significant down	time in si	him.

Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight <u>031206</u>	_Aircraft _NU3	Operator	Eastin	Sheet of	
	LF RPM	2	TA RPM	10	

(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		153000	Take-off
1		153420	TA rador UP
1		153600	LF rador up
1	ON	160500	FAST on - 22° tilt
1		160525	TA set to 2100 PRF
1		140930	LF tith sed to +1.0
1	OFF	165216	Radars Down (Both LF and TA)
1	ON	170120	Raders back up
1		170600	LF rader down - Warking on SFMR
1		171800	LF redar up
1		174900	LF Falur down - working on SFMR
1		175800	LF rader up
1		182219	TA ad LF rader down
1		182809	Radors back up
			Good courage in storm + - no problems
	144		
1		513810	Rador off
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HRD Radar Down-Time Log

Flight 031200F Aircraft 43 Operator Eastin Sheet of

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
TA and LF	145216	170120	??
LF	170400	171800	Working on SFMR
LF	174900	175900	Working on SFMR Working on SFMR ??
TA and LF	182220	182809	??
TA and LF	213810		Radar off
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Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.