19990913 II - RADAR

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 / Preflight

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- Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- Confirm mission and pattern selection from the on-board LPS.
- Select the operational mode for radar system(s) after consultation with the on-board LPS.
- Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

- 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 Postflight

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- 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.

Hand-carry all radar tapes and arrange delivery as follows:

- a. Outside of Miami to the HRD Field Ground 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 AOC flight director.]
- 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: 990913:1	
Aircraft Number: 43-F	1
Doppler Badar Operators: / Pick	Darct
Badan Tashnisian (Bassian)	alcode Richard Mr. Nous
Radar Technician: <u>Coorge</u>	Int
Number of digital magnetic tapes on board:	
Component Systems Status: See 990	S/121
MARS	Computer
DAT1	DAT2
wanither LF 122 dranged to 1.	2 Y R/T Serial #
ТА	R/T Serial #O2
Time correction between radar time and digit	tal time:
Rada	r Postflight Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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HRD Radar Tape Log Flight 9909BilAircraft NBry Operator Lic Sheet_ 2.0 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	
	_	17:45:00	Radars up Not Recording	1
1	Yes	17:55:00	Radar Recording Beaun FLAST	1.
п.		18:53.50	Radar brought down to chare trays nettors	
		18:58:00	New transmitter install # 124 was	122
-		19:08	11 11 Notworking Swappin back	10/22
		19:15:	Back recording Both LF and TA	
		2030	LF down trying the trusmitte	
	-	2045	LE back up again	
		204925	If I back wfold XTMTR	
		25:0000	It's over	
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HRD Radar Down-Time Log

	Operator Leigh	rlen	Flight ID	909/31/Sheetof
	Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
		17:30:00		Running
		185350		Transmitter surgered to see
			185800	if will improve
(18:58:00		Warming up?
Ж		1950	2005	Main date syster down
			****	/
	2			
				4.
	5.6 			

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.