19980823II-ADAR

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

1.

2.

1

- 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.
- 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

- 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.
- 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

- 1. Complete the summary check lists and all other appropriate check lists and forms.
- 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.]
 - 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

· DOL COLLE					
Flight ID:980823I)					
Aircraft Number: <u>V43RF</u>					
Doppler Radar Operators: <u>GAMACHE</u>					
Radar Technician: ROLFS CYNCIF					
Number of digital magnetic tapes on board:					
Component Systems Status: MARS	Computer DAT2 R/T Serial # R/T Serial #				
Radar 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

4

Aircraft NY3RF Operator GAMACHE Sheet 1 of Flight 98082311 2 TA RPM ____/δ LF 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	1.1	10	173355
DITI	Y	174400	HETTO Begin recording 1600/1066
	Y	18 1804	radars lown
	4	10001824	vadars up
	¥	184804	radar stopped reanding
	Y	185156	restart recording
DITI	N	2328	PRF 1600/1600 I scans
	Y	235923	DOWNWIND LEG START
	N	000900	At the S to N eye penetration
	Y	002900	FINISH RADIAL LEG.
		015020	END RECORDING
	1		
		Sec. Sec.	

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HRD Radar Down-Time Log

ator		Flight ID	Sheet o
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
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		10200	
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	and the second		
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la print	Wata A Ci	1 4 7 6 St 1	and the second
39	CAND COL	1 Dorth and	
	and the company		69.03 C

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

Include serial numbers of any new R/Ts.