1080841-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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- 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.
- 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.

E.5.3 Postflight

- 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:
 - a. Outside of Miami to the HRD 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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	Doppier Radar	Scientist Chec	CK LIST		
	Flight ID Aircraft # OperatorsGAMA Radar Tech	910808H N 42RF CHE / DO LEYVA	ORST		
	Number of digital magnetic tapes on board 16 Number of tape labels on board 20 Component systems up and checked:				
	MARS DMTR1 LF TA	Computer DMTR2 R/T# R/T#	Same tl ser		
•	Radar Pos	stflight Summar	ry		
	Number of digital tapes used:	DMTR1 DMTR2	<u> 4 </u> <u> 4 </u>		
	Significant down time:				
	DMTR 1	Radar LF Radar TA			
	Other problems:				

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HRD Radar Tape Log

Flight 910808HI Aircraft _____N42RF Operator ______ DORST Sheet_L of ____

GAMACITE

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
DITI	202530	214240	A
DETI	214240	222440	
DITZ	222440	23.13 13	
D2 T2	231313	235903	
DITS	235903	005710	
D2T3	005710	014501	
DITY	014501	024650	
D2T4	024650	0336.55	(an e
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HRD Radar Down-Time Log

Operator _____GAMACHE / DORST Sheet _____ of ____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
		×	
	- Common		
		i.	

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.

02427- Climb for home 03367-Stop locording. 910808H1 10P6/2 TW#27 195- DRK Emanuel, DRP Black Radar - Dr Joanache, N Dorst T/O ACA 1915Z LAND-AGA 1940 Z - Electra alongside begin interc. 1950 Z - Start stair step decent intercomp. 2020 Z - Intercompair ison over climb 850mb 7 2020 Z - begin TAST sector mode on Lighthand Side to "bir" a Cb. 2035 Z - "box" Completed, no I corrers & turns on the legs. Start Total scrawy Look box to catch 2100Z- Stop socond "box" 2102Z-back to continuous F/AST mode. 21482- Switch ont of F/A ST mode 2152 Z - bock to F/A ST mode 2152 Z - bock to F/A ST mode 2156 Z - begin decent tototo 2159 Z - there 015907 Z - Climb for 1850 MB 02:25 Z - found center 14°26 N 106° 21W