19940819H1- 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

1.

4.

/

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 HRD/DRS and the on-board LPS.
- U
- Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

1. Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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 OAO 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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19940519 HI _ KADAR

Doppier Radar Sci	entist Check List	
Flight ID 940819H	4	
Aircraft # 42RF		
Operators Marles		
Radar Tech Roles		
Number of digital magnetic tapes on boar	d 720 DATS	
Number of tape labels on board	-	
Component systems up and checked:		
Λ	1	
MARS	Computer	
DMTR1	DMTR2	
	B/T# 122	
та	R/T# 201	
Time correction between radar time and digital time		
Radar Postflight Summary		
Number of digital tapes used:	DMTR1	
	DMTR2	
Significant recorder down time:		
DMTR 1	Radar LF	
DMTR 2	Radar TA	
Other problems:		
We only record	led for n1h because	
We only recorded for n1h because of no back a/c		

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HRD Radar Tape Log

Flight <u>940819H</u> Aircraft <u>42RF</u> Operator Maulu Sheet of Time On Tape # Time Off Comments Spechal width on also, F every sweep 18 3350 1835- Bover gran • 84847 switch back to everyothert ON YZRF up Hurr 1 vecord: A Ref. Vel, We Rel everyother Sweep 11 185656 Switch AST \$23° 191030 CON switch to 0 11920 AGC duffed N928 AGG veset oth 193903

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HRD Radar Down-Time Log

Operator			Sheet of
Item	Time Down	Time Up	Problem
•			
		1.0.0	
		1	

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.