1989090511- 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. ______2. ______3.
 - 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 HRD/DRS and 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



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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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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Doppler Radar Scientist Check List				
Flight ID89090Aircraft #N43R1OperatorsGamasRadar Tech.Roles	5 <u></u> = che			
Number of digital magnetic tapes on	board 72			
Number of tape labels on board	Ehryh			
Component systems up and checked	d:			
MARS DMTR1 LF TA	Computer DMTR2 R/T# R/T#			
Time correction between radar time	and digital time			
Radar Po	ostflight Summary			
Number of digital tapes used:	DMTR1			
Significant recorder down time:				
DMTR 1	Radar LF Radar TA			
Other problems:				

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HRD Radar Tape Log

Flight Aircraft <u>N43RF</u> Operator <u>Gamache</u> Sheet <u>I</u> of ____ Time Off Tape # Time On Comments 174930 182400 1-1 Wasa Engine failuro : back to Miami

SEP 0 5 1989

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HRD Radar Down-Time Log

Operator			Sheet of	
Item	Time Down	Time Up	Problem	
	No. Com			
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Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.

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