19891015J1-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. 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.

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

Doppler Radar Scientist Check List

Flight ID 891015I

Aircraft # N43RF

Operators Griffin Feuer

Radar Tech. Al Goldstein

Number of digital magnetic tapes on board ✓

Number of tape labels on board ✓

Component systems up and checked:

MARS	✓	Computer	✓
DMTR1		DMTR2	✓
LF		R/T#	101M
TA		R/T#	104

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used:

DMTR1 3

DMTR2 2

Significant recorder down time:

DMTR 1		Radar LF	
DMTR 2		Radar TA	≈ 30 min

Other problems:

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HRD Radar Tape Log

Flight 891015I Aircraft N43RF Operator Griffin Sheet 1 of ___

Tape #	Time On	Time Off	Comments
1-1	150400		Partial tape probably missing EOF
2-1		1720	
1-2	1720	181705	
2-2	181705	192140	
1-3	192140	202015	
			Tail run at 8 RPM oops!

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HRD Radar Down-Time Log

Operator _____ Sheet ___ of ___

Item	Time Down	Time Up	Problem
			Tail elevation + .5
Tail RT	2162		swapping because refs are low
			Radar prog reloaded
Tail RT			original pat back in

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

8910 1SI Jerry

1707 Z Houston visible on LF

Tail reflecting is not up to snuff but it looks like our choices are little or none; so we chose little!