19910810I1_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 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 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.

Form E-5
Page 1 of 3

Doppler Radar Scientist Check List

Flight ID 900810 I

Aircraft # 43 RF

Operators KABSCHE

Radar Tech. _____

Number of digital magnetic tapes on board > 10

Number of tape labels on board > 50

Component systems up and checked:

MARS	_____	Computer	_____
DMTR1	_____	DMTR2	_____
LF	_____	R/T#	_____
TA	_____	R/T#	_____

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used: DMTR1 _____

DMTR2 _____

Significant down time:

DMTR 1	_____	Radar LF	_____
DMTR 2	_____	Radar TA	_____

Other problems:

Form E-5
Page 3 of 3

Tape
HRD Radar ~~Down Time~~ Log

910810I

Operator KABECHE Sheet 1 of 1

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
D1T1	160320	171800	NO
D2T1	171800	1721	pb at 17.21 system Reset aCone
	~~1757~~		~~Restart the same tape~~.
D1T2	1757	191140	off to MIA

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

Form E-5

HRD Radar Tape Log

Flight ____________ Aircraft ____________ Operator ____________ Sheet___ of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments