

19910811 I. 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

- 5 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- 7 2. Confirm mission and pattern selection from the on-board LPS.
- 7 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- 7 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.

Doppler Radar Scientist Check List

Flight ID 900811 I
Aircraft # 43 RF
Operators KRBECKE
Radar Tech. _____

Number of digital magnetic tapes on board > 10

Number of tape labels on board > 50

Component systems up and checked:

MARS ✓
DMTR1 ✓
LF ✓
TA ✓

Computer ✓
DMTR2 _____
R/T# 121
R/T# 102

Time correction between radar time and digital time 0.01

Radar Postflight Summary

Number of digital tapes used:

DMTR1 2
DMTR2 2

Significant down time:

DMTR 1 _____

Radar LF same

DMTR 2 2136 - 2146

Radar TA same

Other problems:

Same problem with ASRU board
Jim Roles got it up and running in 10 min.
note When leaving sector scan must
reset sector ctr and sec width to 0 of 300
respectively before selecting F/A cont.

HRD Radar Down-Time Log

Operator _____

Sheet ____ of ____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem

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

HRD Radar Tape Log

Flight 9008AAI Aircraft 43RF Operator KARECHI Sheet 4 of 1

[illegible]

NOWRAD image printed by "WX-View" from Robertson Software.

COF 16:30(16)GMT 11-AUG-91 NOWRAD

COPYRIGHT WSI CORPORATION

240150

The following 7 shades represent Radar levels (1 - 6) and sites not reported.

