

19980827IL 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.
- ☐ 2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

#### 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 Field Ground 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.

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**Doppler Radar Scientist Check List**

Flight ID: 980821 I 1  
Aircraft Number: N43RF  
Doppler Radar Operators: GAMACHE  
Radar Technician: ROLES, LYNCH  
Number of digital magnetic tapes on board: 3 60m plenty 90m

**Component Systems Status:**

MARS ✓

Computer ✓

DAT1 ✓

DAT2 ✓

LF \_\_\_\_\_

R/T Serial # \_\_\_\_\_

TA \_\_\_\_\_

R/T Serial # \_\_\_\_\_

Time correction between radar time and digital time: Radar 1 1/2 secs ahead

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**Radar Postflight Summary**

Number of digital tapes used:

DAT1 \_\_\_\_\_

DAT2 \_\_\_\_\_

Significant down time:

DAT1 \_\_\_\_\_

Radar LF \_\_\_\_\_

DAT2 \_\_\_\_\_

Radar TA \_\_\_\_\_

Other Problems:







**HRD Radar Tape Log**

Flight \_\_\_\_\_ Aircraft \_\_\_\_\_ Operator \_\_\_\_\_ Sheet \_\_\_\_ of \_\_\_\_

LF RPM \_\_\_\_\_ TA RPM \_\_\_\_\_

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

[illegible]

## HRD Radar Down-Time Log

Operator \_\_\_\_\_ Flight ID \_\_\_\_\_ Sheet \_\_\_\_ of \_\_\_\_

[illegible]

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.