

192092/H1- RADAR

SEP 21 1992

AUG 22 1992

### 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.

SEP 21 1992

Doppler Radar Scientist Check List

Flight ID 920921H1  
Aircraft # 42  
Operators Dodge, Burpee  
Radar Tech. ~~Roles~~ Neal Rains, Tim Roles

Number of digital magnetic tapes on board ~ 36

Number of tape labels on board sufficient

Component systems up and checked:

MARS ✓

Computer ✓

DMTR1 ✓

DMTR2 ✓

LF ✓

R/T# 124 (spare is 103)

TA ✓

R/T# 101 → 204

Time correction between radar time and digital time \_\_\_\_\_

Radar Postflight Summary

Number of digital tapes used:

DMTR1 43

DMTR2 \_\_\_\_\_

Significant down time:

DMTR 1 none

Radar LF none

DMTR 2 \*

Radar TA swapped transmitters at 1711

Other problems:

Sensitivity on LF vastly improved so we set  
refl. thresh to 2.0 - but then we set back to 1.5  
(all before START of recording), then back to 1.7 at 163750  
back to 2.0 1710

\* DMTR 2 would not load Tape #4, could not find BOT  
marker. Tried 3 diff tapes,  
AOC will pull out and  
examine

Form E-5  
Page 3 of 3

SEP 21 1992

920921H1

## HRD Radar Down-Time Log

Operator Dodge, Burpee

Sheet 1 of 1

[illegible]

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



