

19970930I1-RADAR

E.5 Radar/Airborne Doppler Radar Scientist (On-board)

The on-board Radar Scientist (RS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists 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/RS and the on-board LPS.
- ☒ 4. Complete the appropriate preflight calibrations and checklists 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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 checklists and all other appropriate checklists 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.

30 Sept 87

Radar Scientist Checklist

SECRET - 1102907891

Flight ID 87 0930
Aircraft # 43
Operators Wiggert
Radar Tech Wiggert Terry Schriber
Number of digital magnetic tapes on-board ✓
Number of tape labels on-board ✓
Component systems up and checked:
RDSC ✓ DSC1 ✓
Computer ✓ DSC2 ✓
DMTR1 ✓ DMTR2 ✓
LF ✓ R/T# 101M
TA ✓ R/T# 201
Time correction between radar time and digital time +2 sec

Radar Postflight Summary

Number of digital tapes used DMTR 1 _____
DMTR 2 _____

Significant recorder downtime:

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

Other problems:

SHEET OF

[illegible]

OPERATOR _____

SHEET _____ OF _____

HRD RADAR LOG

RADAR DOWN-TIME LOG

[illegible]

ITEM LIST: VTR, DMTR1, DMTR2, COMP, ROSC, LF, NO, TA, DSC1, DSC2

SEP 30 1987 0 1987

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Radar Scientist Checklist

Flight ID 870930141
Aircraft # 43
Operators M. Black - Doppler
Radar Tech T. Schricker

Number of digital magnetic tapes on-board 2 boxes * 10

Number of tape labels on-board much

Component systems up and checked:

RDSC ✓

DSC1 ✓

Computer ✓

DSC2 ✓

DMTR1 ✓

DMTR2 ✓

LF ✓

R/T# 101m

TA ✓

R/T# 201

Time correction between radar time and digital time +2 sec

Radar Postflight Summary

Number of digital tapes used ~~DMTR 1~~ 3 doppler

DMTR 2 X

Significant recorder downtime:

DMTR 1

Radar LF

DMTR 2

Radar TA

Other problems:

OPERATOR _____

SHEET _____ OF _____

HRD RADAR LOG

RADAR DOWN-TIME LOG

[illegible]

ITEM LIST: VTR, DMTR1, DMTR2, COMP, ROSE, LF, NO, TA, DSC1, DSC2