

# 19851010H1 - RADAR

## E.4 Radar Scientist (On-Board)

OCT 10 1985

This individual is responsible for data collection from all radar systems on board his or 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.4.1 Preflight

- ☒ 1. Determine status of equipment and report results to the on-board lead project scientist (LPS).
- ☒ 2. Confirm mission and pattern selection from on-board LPS.
- ☒ 3. Select operational mode for radar system after consultation with HRD radar scientist and on-board LPS.
- ☒ 4. Complete appropriate preflight calibrations and checklists as specified in the radar operator's manual.

### E.4.2. In-Flight

- ☒ 1. Operate system as specified in the operator's manual and as directed by the HRD radar scientist, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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.4.3 Postflight

- ☒ 1. Complete summary checklists and all other appropriate checklists and forms.
- ☒ 2. Brief on-board LPS on equipment status and turn in completed forms to LPS.
- ☒ 3. Hand-carry all radar tapes and arrange delivery as follows:
  - a. Outside of Miami - the HRD operations center.
  - b. In Miami - the HRD/AOML offices.
- ☒ 4. Debrief at operations center.
- ☒ 5. Determine status of future missions and notify operations center as to where you can be contacted.

Radar Scientist Checklist

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Flight # 851010 #1

A. C. # 42 RF

Operator Leighton

Radar Tech. Duganro +

Number of digital magnetic tapes on board 8

Number of video tapes on board NA

Number of tape labels on board OK

Component systems up and checked:

RDSC ✓

VTR NA

Computer ✓

DSC1 ✓

DMTR1 ✓

DSC2 ✓

DMTR2 ✓

Scopes ✓

NO ✓

LF ✓

TA ✓

Time correction between radar time and digital time +0/sec

Radar Postflight Summary

Number of digital tapes used DMTR 1 3

DMTR 2 3

Number of video tapes used NA

Significant recorder down time (other than for tape changes): 1916 →

DMTR: LF ✓

VTR: LF       

NO       

NO       

TA ✓

TA       

Other problems: (stabilization, interference, etc.) Bad Tilts

SHEET 1 OF 1

[illegible]

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OPERATOR Leighton  
SHEET 1 OF 1

# HRD RADAR LOG

## RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM
DMTR2	1510	152830	No problem with on scope so I decided to conserve tapes
DMTR1	1610	DMTR2 1628	Type pingponged and c: type 2 started at 162830
DMTR2	1906	1916	Removed for some unknown reason and started again
LF/TA	1916	2030	Bad Tilts Flashing out tilts of 44 to - 38

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