19871012HI-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.)

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E.5.1 Preflight

NMD 1. Determine the status of equipment and report results to the on-board Lead Project Scientist (LPS).

NMD 2. Confirm mission and pattern selection from the on-board LPS.

NMD 3. Select the operational mode for radar system(s) after consultation with the HRD/RS and the on-board LPS.

NMD 4. Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.

E.5.2 In-Flight

NMD 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

NMD 1. Complete the summary checklists and all other appropriate checklists and forms.

NMD 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.

NMD 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.]

NMD 4. Debrief at the appropriate operations center (FGOC or MGOC).

NMD 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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Radar Scientist Checklist

Flight ID 871012H1

Aircraft # N42RF

Operators DORST

Radar Tech JARVI

Number of digital magnetic tapes on-board 24

Number of tape labels on-board +

Component systems up and checked:

RDSC ✓ DSC1 ✓

Computer ✓ DSC2 ✓

DMTR1 DMTR2

LF ✓ R/T# 104M

TA ✓ R/T# 104

Time correction between radar time and digital time +2 SEC

Radar Postflight Summary

Number of digital tapes used DMTR 1 4

DMTR 2 3

Significant recorder downtime:

DMTR 1 OK Radar LF ALL FLIGHT

DMTR 2 OK Radar TA OK

Other problems:

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HRD RADAR TAPE LOG

FLIGHT 871012H1 AIRCRAFT 42 OPERATOR DORST SHEET 1 OF

Tape #	Time On	Time Off	Source Radar TA	Source Radar LF	Comments
D1/T1	1140	1154	✓	✓	4F QUESTIONABLE
D2/T1	1154	1255	✓		1217Z ON TA ONLY
D1/T2	1255	1407	✓		
D2/T2	1407	1521	✓		
D1/T3	1521	1637	✓		
D2/T3	1637	1753	✓		
D1/T4	1753	1933	✓		NO ECF ON TAPE

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HRD RADAR LOG

OPERATOR DORST

SHEET 1 OF ____

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RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM
LF	1030Z	1140	A. JARVI CHECKING OUT NEW R/T, L/F FLAKY BUT WILL RECORD.
LF	1202Z	1214Z	IMAGES ON SCREEN VANISH L/F GONE

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