19870925H1_RADAR

SEP 2 5 1987

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

- Determine the status of equipment and report results to the onboard 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.

fin

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

E.5.2 In-Flight

 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

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- 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).
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- 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

1- 1987092541_RADAR

Flight ID <u>870925H</u>
Aircraft $#$ 42
Operators
Radar Tech AL JARVI
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 = V = R/T = 10 PM
TA = V = R/T # OV
Time correction between radar time and digital time <u>~ 2</u>
Radar Postflight Summary
Number of digital tapes used DMTR 1_3
DMTR 2 2 = 5
Significant recorder downtime:
DMTR 1_NO Radar LF NOUE
DMTR 2 NONE Radar TA OFF
Other problems:

Form E-5 Page 2 of 4	4	HRD F	RADAF	R TA	PE LOG	SEP 2 5 1987
FLIGHT	8709251	HI AIRCRA	AFT 42	2 (DPERATOR	SHEETOF
Tape #	Time On	Time Off	Source TA	Radar LF	Comments	
DI/TI	203430	2150		\checkmark		
	~ 2150			~		
O1/T2	2320	0027		~		
02/72	0032	N 0200		V		
D1/T3	~0200			/	Ene DAT	114 COLLECTION
177.7						

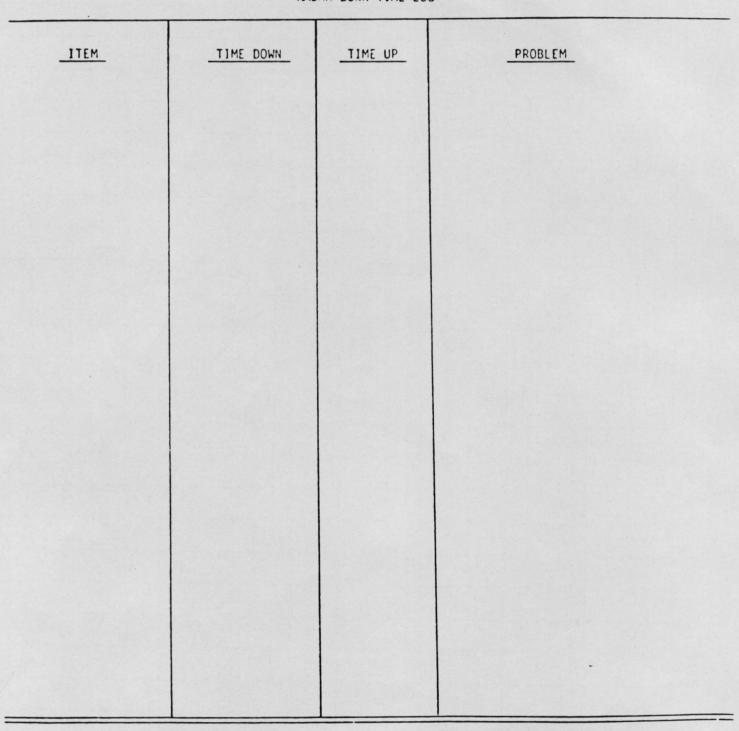
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HRD RADAR LOG

OPERATOR_ SHEET____OF____

a. 1

RADAR DOWN-TIME LOG



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