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.

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 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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 |
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| 177.7 | | | | | | |
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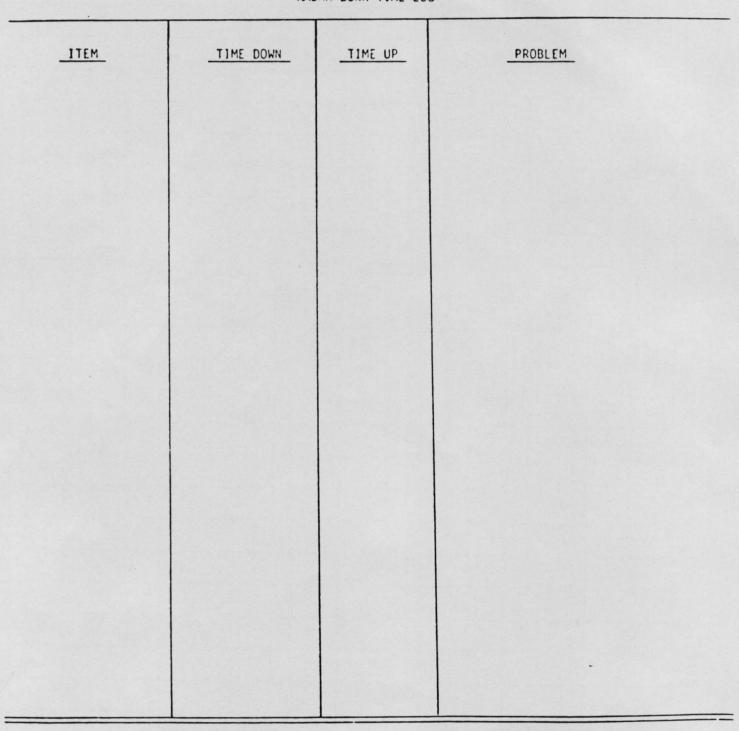
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HRD RADAR LOG

OPERATOR_ SHEET____OF____

a. 1

RADAR DOWN-TIME LOG



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