

19920822I1 - RADAR

AUG 22 1992

E.5 Doppler Radar Scientist (On-Board)

The on-board Doppler radar scientist (DRS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and check lists 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 on-board LPS.
- _____ 4. Complete the appropriate preflight calibrations and check lists 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 on-board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.

E.5.3 Postflight

- _____ 1. Complete the summary check lists and all other appropriate check lists 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 AOC 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.

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Doppler Radar Scientist Check List

Flight ID 920822I1
Aircraft # 43
Operators Dodge, Marks, Gamacke, Dellaria
Radar Tech. Jim Roles, Terry Lynch

Number of digital magnetic tapes on board ~ 30

Number of tape labels on board SUFFICIENT TO THE TASK AT HAND

Component systems up and checked:

MARS ↑
DMTR1 ↑
LF ?
TA ↑

Computer ↑
DMTR2 ↑
R/T# 102 (spare is 122)
R/T# 201 Trans (spare is 102)
202 Rcur

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used:

DMTR1 3
DMTR2 3

Significant down time:

DMTR 1 0
DMTR 2 0

Radar LF down most of the flight
Radar TA none

Other problems:

1744 - AFC on L/F is not working, so spoke display
~1930-1943: sys down as Terry L. readjusted TA & LF,

2347 - LF turned off - RT just was not firing
and other RT had no AFC

2355 LF on - but max DBZ of 5 DBZ! Also
incorrect cal. table for this RT

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Form E-5
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HRD Radar Down-Time Log

Operator _____

Sheet 1 of _____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
MARS	1930	1943	down while Terry L adj; TA & LF

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.