

SEP 25 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 920925H1
Aircraft # 42
Operators Dodge, Burpee
Radar Tech. Neal Rains, Jim Roles

Number of digital magnetic tapes on board 16 (solo.)

Number of tape labels on board enough

Component systems up and checked:

MARS ✓
DMTR1 ✓
LF ✓
TA ✓

Computer ✓
DMTR2 NOT WORKING
R/T# 124 (103 spare)
B/T# 204 (101 spare)

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used: DMTR1 11
DMTR2 0

Significant down time:

DMTR 1 _____ Radar LF NO
DMTR 2 not working Radar TA yes

Other problems:

SEE GREEN BOOK concerning
TAIL Noise

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Flight 920925H1 Aircraft 42 Operator Dodge, Bruce Sheet 1 of

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HRD Radar Down-Time Log

Operator Dodge, BurpeeSheet 1 of

| Item | Time Down (HHMMSS) | Time Up (HHMMSS) | Problem |
|--------------|-----------------------|---------------------|----------------------------------|
| TA Tr | 0011 | | died. NR & TR replaced with #101 |
| | | 0021 | |
| TA Tr | 0034 | 110 | spoke then this one died too |
| whole sys | 112 | . | down for rest of flight. |
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Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.

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E.5 Doppler Radar Scientist (On-Board)

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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:
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- ☐ 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 920925J1 TINA
Aircraft # 43RF
Operators Leighton
Radar Tech. AL Goldstein

Number of digital magnetic tapes on board 18+

Number of tape labels on board 18+

Component systems up and checked:

| | | | |
|-------|----------|----------|---------------|
| MARS | <u>✓</u> | Computer | <u>✓</u> |
| DMTR1 | <u>✓</u> | DMTR2 | <u>✓</u> |
| LF | <u>✓</u> | R/T# | <u>SN 102</u> |
| TA | <u>✓</u> | R/T# | <u>SN 201</u> |

Time correction between radar time and digital time ✓

Radar Postflight Summary

Number of digital tapes used: DMTR1 _____
DMTR2 _____

Significant down time:

| | | | |
|--------|-------|----------|-------|
| DMTR 1 | _____ | Radar LF | _____ |
| DMTR 2 | _____ | Radar TA | _____ |

Other problems:

[Handwritten signature]

HRD Radar Tape Log

TINA

Flight 920925II Aircraft 43AF Operator Leighton Sheet 1 of

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TINA

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HRD Radar Down-Time Log

Operator LeightonSheet 1 of

| Item | Time Down (HHMMSS) | Time Up (HHMMSS) | Problem |
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Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.