19920922H1-RADAR

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 920922H1

Aircraft # 42

Operators Dodge, Burpee

Radar Tech. N. Rains, J. Roles

Number of digital magnetic tapes on board 2 boxes + 15 in bins

Number of tape labels on board sufficient

Component systems up and checked:

MARS	✓	Computer	✓
DMTR1	✓	DMTR2	✓
LF	✓	R/T#	124 (spare 103)
TA	✓	R/T#	204

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used: DMTR1 9

DMTR2 1

Significant down time:

DMTR 1	none	Radar LF	none
DMTR 2	down from 1817 on	Radar TA	2043 - 2048 (approx)

RCtl didn't update

Other problems:

J. Roles worked on TA range delay problem on ferry out and back

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HRD Radar Down-Time Log

Operator Dodge Burpee Sheet ___ of ___

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
~~MT~~ #2	1817	NOT	won't load tape, says NO BOT
TA	~2043	~2048	TA didn't update PROBABLY LOST 5 min in eye!

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

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HRD Radar Tape Log

Flight SEP 22 1992 Aircraft 42 Operator Dodge Bumper Sheet 1 of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
1-1	164744	173427	LFSKIP 2, TASKIP 1
2-1	173427	? before 1813	174606 F/AST on
1-2	? before 1813	1855	before 1813 F/AST off 181738
1-3	185835	192614	190556 F/AST on 1921 F/AST off
1-4	192830	195859	
1-5	200209	203633	200237 F/AST ON 2027 F/AST off
1-6	203839	212155	210722 F/AST ON until end of tape
1-7	212520	220334	Took longer to swap because of MISLOAD
1-8	2207	222954	2207 F/AST ON 222817 F/AST off
1-9	223200	230940	