19900828I1_RADAR

AUG 2 8 1990

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. 2 rpm LF 10 rpm TA

_____ 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 90828I1

Aircraft # 43

Operators Dodge, Roux

Radar Tech. GOLDSTEIN

Number of digital magnetic tapes on board enough

Number of tape labels on board enough

Component systems up and checked:

MARS	✓	Computer	
DMTR1	✓	DMTR2	
LF	✓	R/T#	123
TA		R/T#	204

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: ~1650 – 1656 data system crash.

1702 back up

1724 Strange inward propagating ring on TA (?)

BOTH drives often said "CHECK" which may mean excessive write errors (crappy tapes or dirty heads?) – I hope that doesn't translate into many drop outs. Also reluctant UNLOADS – also due to crappy tapes?

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HRD Radar Down-Time Log

Operator Dodge Rowe Sheet 1 of 2

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
DATA SYSTEM	1650	1702	FREQ CONVERTER for 400 cycle POWER ripple crashed HPIS.

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

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HRD Radar Tape Log

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Flight 90828I2 Aircraft 43 Operator Dodge Roux Sheet ___ of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	TA every, LF every other Comments
1-1	1749	1839	10 RPM TA 2 RPM LF
2-1	1839	1918	
1-2	1918	1959	
2-2	1956	~2040	didn't catch end time. sheesh
1-3	~2040	~2116	
2-3	~2116	2158	F/AST 2122-2130
1-4	2158	2232	F/AST 2212-2221
2-4	2232	2316	F/AST 2256-
1-5	2316	004033	F/AST UNTIL ~2328 then TA OFF LF only rest of tape (to print LAND