Danielle

Doppler Radar Scientist Check List

Flight ID: ~~980829A~~ 19980830I_RADAR

Aircraft Number: ~~N[illegible]~~ N43RF

Doppler Radar Operators: GAMACHE

Radar Technician: TERRY LYNCH

Number of digital magnetic tapes on board: NOT ENOUGH. No 60's after flight

Component Systems Status:

MARS	✓	Computer	✓
DAT1	✓	DAT2	SONY 60m
LF	✓	R/T Serial #	103
TA	✓	R/T Serial #	201/201

Time correction between radar time and digital time: _____

Radar Postflight Summary

Number of digital tapes used: DAT1 1

DAT2 1

Significant down time:

DAT1		Radar LF	
DAT2		Radar TA	

Other Problems:

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.

_____ 2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

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 Field Ground 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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HRD Radar Tape Log

Flight ~~N43~~ 980830I Aircraft N43RF Operator GAMACHE Sheet 1 of ____

LF RPM 2 TA RPM 10

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		193235	T/O
DIT1	YES	201300	FAST 1600/1066
	NO	204840	CONTINUOUS 1600/1600
	NO	2100	27°41' 74°1' ~~74°2'~~ G
	NO	211100	END CONTINUOUS
	YES	211140	FAST 1600/1066
	NO	221155	CONTINUOUS 1600/1600
	NO	222425	~~27°47'~~ 74°9' 27°47' G
	NO	223510	CONTINUOUS END
	YES	223615	FAST 1600/1066
		2258	IN STRONG RAINBAND - GOOD FAST OF
		2335	27°52' 74°10' G OUTER R.B.
		0056	27°59' 74°12' G 982mb extrap Press
		010010	RADAR DOWN
		010508	DRIVE TWO HOPE FOR THE BEST
		010600	
		010845	ALL SETTINGS RESTORED
		0208	TA down for a while en eye about 0205-0208
		0254	END RECORDING

~~GPS~~ 205555
205850 BT12
205720 GPS
210920 BT4
210420 GPS
212806 GPS
220015 GPS
220076PS
222030 BT
222054GPS
222425 GPS G
222737 BT
222737GPS
224735 GPS
230920 GPS
232308GPS
232308BT16
233100 GPS
233130 BT12
233225 GPS
233740 GPS
234640 BPS4
234640 BT4
235955GPS
003230GPS
004340GPS
004340BT16
005136GPS
005215 BT
005310GPS
005824GPS
005824BT4
010930GPS
012138 BT GPS

HRD Radar Down-Time Log

Operator GAMACHE Flight ID 980830I1 Sheet 1 of 1

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	010010	010600	RECORDING DOWN
	020500	020800	TA RECORDING DOWN

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.