19910908II-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 P	refligh	nt Control of the Con
	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.
V	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 II	n-Flig	ht
	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 F	Postflig	ght
	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.]
30	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.

T/0 1557

Doppler Radar Scientist Check List

H-118000

Flight ID 91	0908I1
Aircraft # N 43R1	~
Operators Loux	Canache
Radar Tech. Sq lun	
Number of digital magnetic tapes on boa	ard At least 25
	rough
	0
Component systems up and checked:	
MARS	Computer
DMTR1	DMTR2
LF	R/T# 121 .
TA	R/T# 102 \$ 202
Time correction between radar time and	digital time Radar finne I sec ahead
Radar Postfl	ight Summary
Number of digital tapes used:	DMTR1
	DMTR2
Significant down time:	
1616	Radar LF in order to correct 7 A probs
DMTR1 NONE	Radar LF Lu order to corver WEIT
DMTR2 NONE	Radar TA First 1/2 hours of FIt.
Other problems:	
(1) en counter one	major moblem porticularl
pouler in the Phialite.	the scars were place soused
best lated the project.	Os Aft.
10 miles of the fire of	major problem, porticularly the scores were only as sporsely als. After a clata-system i happened again. Problem led with
power summe a second	I fain, Problem
oppeared to be assured	ug with

HRD Radar Tape Log

Flight 910908 I | Aircraft N43RF Operator Gamache Sheet 1 of 1

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments	
1-1	180430	1618	THE AND A STREET	
7271	162500	1627/639	Th off after 1627	
DIT2	165430	1703		
DZTZ	1733	1851	Recording SRPM on TALL AUGNM ANTENNAJMAY BE OUT OF AUGNM 1753 ANTENNA NPM LOT	EN
DITA	1851	192635	1804 ANTENNA MADM to 5	
D2T3	192635	2002	1838 We realized that after Radar troubles we never set switch	
DIT4	2002	2044	for TAScan to 100 azimuth We changed it et 1838	
D2T4	2044	213029	1906 TA RRING increases to lo RIBM problem appears to have resolved.	15-
DITS	2137	2209	1944 Massive attenuation in grangel	4
D2T5	2209	2244	2040 Our blocky TH problems	
BD176	2244	2332	2108 3123' 62°571 9 of 10,000 At	8
D276	2372	0011	213029 Data System power failure	
DITT	0011	004040	2137 restarted StiORPM 2210 LIGHTNINGSTRIKE-FELTITT	THO
			2304 Restanted appled appleting	,
			going around convertible	0+
			active part of the yours	7

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HRD Radar Down-Time Log

Operator	Gamache	Sheet / of /
- po. a.c		

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
MARK TH	1610		MARS TA probably about 10 the rachers of continually very be
	1000		Continually very be
14	SO MAGE	E 1. NO 1. DO	V
			1.60.1.00.5.60
90.30			
1480) 8	200 Dec 100 100 100 100 100 100 100 100 100 10	(\$4) 1 (X) 3 X	The state of the s
-46-11	10765-286		1
	1 824 Z 323	quid in the	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 150400 VARO CAR
	17 19 19 19 19 19	181 V V	
	Algebrasia (Algebrasia)		
	1		

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