19910729HLRAPAR

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	Prefligh	JUL 2 9 1991
_/	_ 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-Fligh	t
V	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	Postflig	ht
/	_ 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.

Doppler Radar Scientist Check List

Flight ID	91073	29H1		
Aircraft #	N 42	RF		
Operators	GAMACHE	/ DORST	Γ	JUL 2 9 1991
Radar Tech.	LEYV	A	200	
Number of digital magn	etic tapes on boa	rd	22	
Number of tape labels	on board		12	
Component systems up	and checked:			
MARS	<u> </u>	Computer		
DMTR1	V	DMTR2		_
LF	/	R/T#		_
TA		R/T#		_
Time correction between	en radar time and	digital time		
	Radar Postfl	ight Summa	ry	
Number of digital tapes	used:	DMTR1 DMTR2	3	-
Significant down time:				
DMTR 1		Radar LF		-
DMTR 2		Radar TA		_
Other problems:	10 Mins on	5430E)	m CRASH	

HRD Radar Tape Log

Flight 910729H1 Aircraft N42 RF Operator 64MACHE DORST Sheet of

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments JUL 2 9 1991
DITI	003700	011543	
D2 T1	011543	0 20230	
D172	020230	023348	
D2T2	023348	030406	•
DIT3	030406	030820	SYSTEM DOWN SMALL TAPE
D2T3	032030	041917	
DIT4	041917	051851	

Form E-5

Page 3 of 3 HRD Radar Down-Time Log

Operator 64MACHE / DORST Sheet ___ of ___

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
CONFUTER	030820	032030	SYSTEM CRASH , RESTARTED
	-		

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

20P4/3 TEXMEX 910729HI - flight into TS FAFA T/O ACA 23:31 Z LAND ACAMOTION 2 LOS-KEMMANUEL, PBLACK, Radar - JEANAGHE N. DURST PLOTS TURNER, AMLIBBORN, FLTD B. DAMIANO TECHS PARADAS, LEWA, GENZALES START RADAR TAPE ~ 00362 01:55- APPROCHING LARGE CLOUD SHIELD TO SW. ONCE ABAIN Dr. G IS DOING ALL THE RADAR SKETCHES. 02:23 - in the 'Sorp' SE of conter is very furbulent, large precip Shield JW-NE of Certar 03:08-03:20 2 - SYSTEM DOWN, REBUOTED 04:48 - Climb for home 05182- StoppED RECORDING