# 19910817HI-RADAR

Aug. 17 199)

#### 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	ıt
	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	nt .
-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
-/	<del>/</del> 1.	Complete the summary check lists and all other appropriate check lists and forms.
V	2.	Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
1	_ 3.	Hand-carry all radar tapes and arrange delivery as follows:
	/	<ul> <li>a. Outside of Miami - to the HRD operations center (FGOC).</li> <li>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.]</li> </ul>
	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

SACA9 - HATEOUPP

Flight ID	910817	41	
Aircraft #	N42RF		
	Gamache		
Operators		1/15	
Radar Tech.	Ne. T Regus, Ju	ean Carlos	
Number of digital magn	etic tapes on boar	d	<u></u>
Number of tape labels	on board <u>En</u>	rugh	
Component systems up		0	
MARS	/	Computer	
DMTR1	/	DMTR2	
LF	/	R/T#	S/N 124 changed &
та		R/T#	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Time correction between	en radar time and	digital time	Radar 1/2 secs ah
	Radar Postflig		
Number of digital tapes	used:	DMTR1	
		DMTR2	
Significant down time:			
DMTR 1		Radar LF	er en
DMTR 2		Radar TA	
Other problems:	0		M TA was low
1 and Ma	slow in f	light we	th 14 was dece
	d. La mix.	o in Co	able connections.
to vaca	The state of the s		th TA was dere able connections. still had searal
When H	as was for	rol wi	
10000 0 1000	1 delle probl	ms.	

#### HRD Radar Tape Log

Flight 910917 H JAircraft N42RF Operator Ganache Sheet 1 of 1

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
DZTI	around 1940	210650	Only LF Vecading to pack of
F	2025/	7)	Recording turned wall off
	20		vestated at 2025
DNTI	210720	012300	LF recording only
			0032-Start recording FTH in FAST IN
D272	0134	0139	Restort vador
DIT2	015015	0310	System not monghit buck up ofter 0310
			Mac .

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### HRD Radar Down-Time Log

	n n	,
Operator _	Camache	Sheet _/ of _/

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
LF AT	1846		LE Apparently not transcen
			Change RIT
			TA back at C. 2300
			2 cables had been intercloused
offess offess	0123	0134	Stopped updating
MARS	0139		1 V V
	0306	Enelog	TA rodar out again
			O
*			
	*		

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