

SEP 21 1992

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					
-	Determine the status of equipment and report results to the on-board less 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 .				
	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.				

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Doppler Radar Scientist Check List

Flight ID	92092141		200 (100 (100 (100 (100 (100 (100 (100 (
Aircraft #	42				
Operators	Dodge, Burpee				
	0		To Roller		
Radar Tech.	Roles Neal	namo,	TIM (LOCK)		
Number of digital mag	netic tapes on boa	rd ~ 36			
Number of tape labels	on board <u>suff</u>	icient			
Component systems u	up and checked:				
MARS		Computer			
DMTR1		DMTR2			
	/	R/T#	124 (Spare is 103)		
LF	/		10 -> 204		
TA		R/T#	101 - 7 204		
Time correction between	en radar time and	digital time			
	Radar Postfl	ight Summa	ry		
.		DMTD4	43		
Number of digital tape	s usea:	DMTR1	- 12		
		DMTR2			
Significant down time:					
DMTR 1	more	Radar LF	more		
			swapped transmitters at 1711		
DMTR2 *		Radar TA	2 (2-2) N. 1.6		
Other problems:					

Sensitivity on LF vastly improved so we set refl. thresh to 2:0 - but then we set back to 1:5 (all before STARI of recording), then back to 1:7 at 163750 back to 2:0 1710 ** DMTR 2 would not load Tape #* 4. could not find Bot 1734: TA thresh set to 20 marker. Tried 3 diff tapes, Acc will pull and addiff tapes,

Acc will pull ont and examine

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HRD Radar Down-Time Log

Operator Dodge, Burpece

Sheet ____ of ____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
TAIL	1711	1717	Tail Trans had to be swapped, because sensitivity way down. New Trans has magnetion that hadn't been were before - was 10 hz off others - so Neal R had to twickle a lot to beep doppler whereut. More
			has magnetion that hadn't been used before - was 10 hz off
			a lot to been doppler wherent. More
	WA		discuss în Green Book
1917-1919			TAIL out
2221-22	22 FA		TAIL out (DSP lost trigger)
		45. 1954	

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

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HRD Radar Tape Log

Flight 920921H1 Aircraft H2RF Operator Dodge Burpee Sheet of

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments 1-7
1-1	163750	1740	LF-2, TA 1 LF thresh by, TAthresh 1.6
2-1	1740	1821	
1-2	1821	~ 1910	1839 - FIAST on 1905 of
2-1	21910	200946	1949 F/AST on 20:06 F/AST off
1-3	200943	2053	2053 FIAST ON (may be not on this -
2-3	2053	214028	2119 FIAST of
1-4	214028	2239	(LAST) 2205 F/AST ON