19991014 II - RADAR

E.5 Radar Scientist

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).			
<i>2</i>	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	Post flight			
	1. Complete the summary check lists and all other appropriate check lists and forms.			
<u> </u>	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 LPS. 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 MGOC or the hotel during a deployment.			
	5. Determine the status of future missions and notify MGOC as to where you can be contacted.			

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HRD Radar Scientist Check List				
Flight ID: 991014II Irene	Reico			
Aircraft Number: <u>43</u>				
Doppler Radar Operators: 19, 18 5 a C				
Radar Technician: Trry by nch				
Number of digital magnetic tapes on board:				

1£

Component Systems Status:

MARS	Computer	
DAT1	DAT2	
LF	R/T Serial #	122
ΤΑ	R/T Serial #	101/202

Time correction between radar time and digital time:

Radar Post flight Summary

Number of digital tapes used:	DAT1	
	DAT2	
Significant down time:		
DAT1		Radar LF
DAT2		Radar TA

Other Problems:

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HRD Radar Tape Log

Flight 99101427 Aircraft 43 Operator P. Podge Sheet ____ of ____

LF RPM ______ TA RPM _____

(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
1	V	~190636	Type Start
	V	2134	report rada system
2		2138	New Type offer reboot
and a second second		0015	system down - SM will
			try to fire
3		002932	Start
	1	322	stopped recording
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HRD Radar Down-Time Log

Flight <u>29/0/4</u> Aircraft <u>43</u> Operator<u>P</u>, <u>Dodge</u> Sheet ____ of ____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
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4. ¹⁴ . ¹⁴ . 14. 14. 14. 14. 14. 14. 14. 14. 14. 14			
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Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.