19980928H1-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 Preflight

- 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-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.
- 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 Postflight

- . 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 Field Ground 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.

Form E-5 Page 1 of 3

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Doppler Radar Scientist Check List

Flight ID:	
Aircraft Number:	
Doppler Radar Operators:	
Radar Technician:	
Number of digital magnetic tapes on board:	
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
ТА	R/T Serial #
Time correction between radar time and digita	I time:
Badar	Deatflight Summary
nauar	Postingiti Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight 98092841 Aircraft NURRE Operator Leighbulladsee Sheet ____ of ____ LF RPM _2 TA RPM 10

(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	
DITI	1	03:18:00	Start LFrec tailmoise bal PRF	
	Y	03121121	tail old 20°	
	N	05125100?	Stat sink PRF Cont. 0° 3:	
	Y.	05:29:00?	1 DUAL PRF Fast 20" {"e	
	N	05:45:05	start Sinh PRT Cont O" Packer 1	tota
	Y	06:20:00	Start PRFDual Fautant. 200	
	N	66:32:00	miscue on dog leg will mitch so	
	7	06:33:00		
	N	06:38:45	Startingle PRF cont 0°	
	\searrow	07:01:20	Startowal PRF Fist Cant 20°	
	4	07:53;007	Roder down	
	Y	0757:00	Redor up	
			8	
		11:00:11	end sur liper	
		1122:33	Aquilly	

Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight	Aircraft	Operator	Sheet of
	1		
IFRE	M	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
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Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight	Aircraft	Operator	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
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- 24			
	1200		
1100		Carry Mart	
1-3.11			
	1		
			.

Form E-5 Page 3 of 3

HRD Radar Down-Time Log

Operator		Flight ID	Sheet of
ltem	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
		200 (C	
<u></u>			
	-		
1.00			
	en all second day		

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.

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