-H. HORTENSE

E.5 Doppler Radar Scientist (On-Board) - LAND-SEA

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

V2

- 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
 - Confirm mission and pattern selection from the on-board LPS.
 - Select the operational mode for radar system(s) after consultation with the on-board LPS.
 - Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

4.

- 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 Postflight

- 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 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.

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Doppler Radar Scientist Check List

Print - HASI FS DAY

Flight ID:960912H	Setum 1
Aircraft Number: 42	
Doppler Radar Operators:LAND 5EA	
Radar Technician:SEAN	
	20
Number of digital magnetic tapes on board:	10
Component Systems Status: MARS	Computer 1 DAT2 1 R/T Serial # 124 R/T Serial # $201/102$
IA	
Time correction between radar time and digital time:	Radar is 1-2 seronds ahead of digital time.
Radar Postflig	ght Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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Ta

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HRD Radar Tape Log

Flight 960912H Aircraft 42 Operator LANDSEA Sheet of 0 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		033120	Take off
		0409	Radars started
		0416	Tape Stouted
		0416-26	Run I mode
	V	0430-40	Run F/AST mide
		0537	Thton LF changed to 3° - down to 850mb
	V	TO 640	F/AST mode started on N bound leg
	and the second	0710	Flast ended - Inbound leg from NEState
	L	0802	ELAST mode Storted - E bound les
)	0807	Radows (LF+TA) Stopped
	and a surface	0821	Tape restarted
		0823	trit set to 2.5 on LF
	V	0825	FLAST mode started Cagain)
		0834	Flast ended - inbound les from SE storted.
	V	0935	FLAST started - 5 bound log
	and the second second	1003?	ElAST Ended - inbound les Alem Se starter
		11.57	Tapp Stopped +
	E.		
app1	mit {	0416-1137	START-END 04/6-0807
pe2		1157-1819	START-END 0807-1157

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HRD Radar Down-Time Log

Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
0807		Both radous stopped updating
0821		Both radars stopped updating Radars re-storted to
	Sandy Sandy	
	and the second second	
	Sec. 10	
and the second		
100		
	(HHMMSS) 0807 0821	(HHMMSS) (HHMMSS) 0307

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

Include serial numbers of any new R/Ts.

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HRD Radar Down-Time Log

Operator LANDSEA Flight ID 9609124 Sheet of				
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem	
LF+TA	0807	1	Both relaxs stopped updating Radors re-storted to	
N?	0821		Radors re-storted time	
р. С				
ana na panganana katan katan siya masa ka				
	1. M. C.			
		Т., к		

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

Include serial numbers of any new R/Ts.