LILI 02093041

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
	 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.
4	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 Post flight
	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.
	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 Down-Time Log
Flight 02033 Aircraft 12 Operator Sheet

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
Rostart	N64800	165300	N of Clobo
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Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.

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Flight 0209304 Aircraft 42	HRD Radar Tape Log 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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HRD Radar Scientist Check List

Flight ID: 090930	H/
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Doppler Radar Operators:	Bosan/Ceyth
Radar Technician: M' Mu	1/6~
Number of digital magnetic tapes	
rumber of aignal magnetic tapes	on board.
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
TA	R/T Serial #
Time correction between	radar time and digital time:
Radar Pos	t flight Summary
Number of digital tapes used: DAT1	
DAT2	
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	