willis

## Radar Scientist

The on-board radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off or initial.)

Preflight	
1.	Determine the status of equipment and report results to the lead project scientist (LPS).
	Confirm mission and pattern selection from the LPS.  FAST and VI
3.	Select the operational mode for radar system(s) after consultation with the LPS.
4.	Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.
In-Flight	
1.	Operate the system(s) as specified in the operator's manual and as directed by the 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.
Post flight	log book not done
1.	Complete the summary checklists and all other appropriate forms.
	Brief the LPS on equipment status and turn in completed forms to the LPS.
	Hand-carry all radar tapes and arrange delivery as follows:
	<ul> <li>a. Outside of Miami-to the LPS.</li> <li>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.]</li> </ul>
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.

	cientist Check List
	2905
Aircraft Number:	43RF
Radar Operators:	Willis / Roger
Radar Technician:	Lynch
Number of digital ma	agnetic tapes on board:
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF1	R/T Serial #
	R/T Serial #
	lar time and digital time:
Number of digital tapes used: DAT1	/
DAT2	
Significant down time:	
DAT1	Radar LF radars of for formation flying
DAT2	Radar TA
Other Problems:  AIL OSCI USA hurrl  PRF 2100	
F OSCI W3A huss 1 PRF 200	
PRF 200	

050629I HRD

## HRD Radar Event Log

Flight 06 2905	Aircraft_	43RFOperator	Willis	_Sheet/	of_	2

LF RPM \_\_\_\_\_ TA RPM \_\_\_\_\_ PPM

(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
		1301/00-2	Taxi WATCH Is ahead of display
		1311/36	7/0
Tope #1		0932/37	1406 SW TO BUDY TAIL CONTINUOUS
		0952/36	FORMATION, will shirt off TXR
		1021/50	CPS sonde, Rodas still off
		1039/00	GRS sond Drop still in formation
		1090/40	splash (sorde)
E LANGE		1052/30	BT drop
		1103/30	Terry restarting radace
		1109	300m althou for SFAR bug run
		111/25	trouble starturadas
	Set Pla	1114/40	climbing
		1118/02	tail rador ok, no towers
		1119/00	LF on, maybe ok, yes ok
	大大型	1143/00	very small cells to right on Tail
	1150/12	1150/12	NOTPLEST
	1153		SET PAST TO ± 20° was any 2°
			some smalle cells ahood to lest.
		1200/39	will go thou some low cells ahead
		1202/40	entering cells
		1203/03	incloud, radar ok 24dBZ?
		1204/45	turning, small cell In worken
		1201/38	in call, good bungs toil roder ok
		1206/40	weak ceil, 20-40 km to right on tail

	HRD	Radar	Event	Log
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Flight 062		Aircraft	43RF OP	erator _	Willa	Sheet 2	of 2
	IFRPM	1 2	ТА	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
	1210/00	FAST Off.	have Lyle's now head, no king wire
			convection building over land
		1214/12	small cells on tail radar
		1217/06	radars off.
		1218/56	landed / NO Touch & go
			maybe 2 touch and goes
		1222/20	T+G goin
		1225/39	landed