1988090141_RADAR

E.5 Radar/Airborne Doppler Radar Scientist (On-Board)

The on-board radar scientist (RS) 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.
	 Select the operational mode for radar system(s) after consultation with the HRD/RS and 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.
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 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 OAO 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.
2135-A1 Pul Sind -	Javi worked some more on Doppler. I solated problem to se pair box. No luck get Javi thinks he found a bad chip on board in Puls pair box

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Radar Scientist Check List

Flight ID Aircraft # Operators Radar Tech. Number of digital magnetic tapes on board Number of tape labels on board Component systems up and checked:	SEP 1 1988							
RDSC DSC1	/							
Computer DSC2								
DMTR1 DMTR2								
LF R/T#	02							
TA R/T#2	01							
Time correction between radar time and digital time								
Radar Postflight Summary								
Number of digital tapes used: DMTR 1 DMTR 2	2							
Significant recorder down time:								
DMTR 1 None Radar LF SA	5N 102 V 201							
Other problems:								

Al Davi adjusted frequency got it to work.

But Doppler Coho not locking onto transmit

pulse can't get stady relocky of ground. Over

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HRD Doppler Radar Tape Log

SEP. / 1 jong

Flight		Aircraft .	7	LK	P	Operator Sheet of
Tape				Sourc	ce*	
Number	Time On	Time Off	V	Н	S	Comments** (#pulses, scan rate, range)
1-1	195420					vadar tapp
1	195515	1957				Doppler tane 150 m gates
						Problem with 32 pulses
						Doppler tape 150m gates Problem with 32 pulses Doppler system shut down
2-1		2140				2114 TA & LF data looks good. cin anvil go LFS TA at the beginning
						good. in anvil 9
1-2	2142					LF3 TA at the Gegmany
						them CFafter 214320
22		001030				4
						000830 TA on good hogelas
1-3						001315 TA of6

^{*}Vertical, horizontal, or full sweep scan.

^{**}Number of pulses averaged (32, 64, 128, 256); scan rate (min, max); range resolution (150 m, 300 m).

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HRD Radar Down-Time Log

SEP 1 1988

Ор	erator	Cry .	Sheet of		
Item	Time Down	Time Up	Problem		
			Popper down wholefight		
	1827				

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.