1989092911_RADAR

SEP 2 8 1989

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

- 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 HRD/DRS 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

- _ 1. Complete the summary check lists and all other appropriate check lists and forms.
- 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 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.]
 - 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 S	cientist Che	ck List	
Flight ID Aircraft # Operators Radar Tech. Number of digital magr Number of tape labels Component systems up	890929 <u>43</u> <u>BLACK, DO</u> <u>ROLES</u> netic tapes on boa on board <u>Ma</u> p and checked:	TI DGE ard <u>plen</u> 38 enoug	byf	
		- · · ·		
MARS		Computer		
DMTR1		DMTR2		
LF		R/T#	121	-
ТА		R/T#	204	
Time correction betwee	en radar time and	digital time	rador display faster than	time ~ 1,2 sec data display
	Radar Postfi	light Summa	iry	
Number of digital tapes	s used:	DMTR1 DMTR2	2	_
Significant recorder do	wn time:			
DMTR 1 DMTR 2		Radar LF Radar TA	00	-
Other problems:				

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HRD Radar Tape Log

Flight <u>8909391</u> Aircraft <u>43</u> Operator <u>BLACK</u> Sheet of						
Tape #	Time On	Time Off	Comments			
(-1	17:11	18:49:30	every other LF, every TAIL			
2-1	18:49:30	20:14:16				
1-2	20:14:16	21:20				

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HRD Radar Down-Time Log

Operator Dodge, Bluck

Sheet $\underline{\ }$ of $\underline{\ }$

Item	Time Down	Time Up	Problem
(18:09	18:13	- display stopped updating J. Roles tixed - a software
			problem when the getis too many messages queried up?
		State of the	

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