Doppler Radar Scientist (On-Board) E.5

AUG 28 1990

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

1990082841_RADAR

- 1. 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.
- 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.

E.5.3 Postflight

- Complete the summary check lists and all other appropriate check lists and forms. 1.
- 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: Types on fop rack 11 Tail storage lein 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 AOC flight director.]



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- Debrief at the appropriate operations center (FGOC or MGOC).
- 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			
Flight ID <u>900828H1</u> Aircraft # <u>NOAA 42</u> Operators <u>M. Black</u> Badar Tech. <u>Jim Roles</u>			
Number of digital magnetic tapes on board <u>at least 30</u>			
Number of tape labels on board VDO			
Component systems up and checked:			
MARS Com	nputer		
DMTR1 Not 1:11 204600 DMT	TR2		
LF R/T#	121		
TA R/T#	Blank, 9320 on handle		
Time correction between radar time and digital time			
Radar Postflight Summary			
Number of digital tapes used: DMT	rr1 2 rr2 5		
Significant down time:			
DMTR 11 750 - 2046 Rad	ar LF		
DMTR 2 Rad	ar TA		
Other problems:			

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HRD Radar Down-Time Log

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
Tape &	1750'	204600	Data File says offling
19			
1			DITI CONCENTIO
		***	2
	14	*	
n Sty			
		6	
	6	18	
			14 1 - Leb

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.

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HRD Radar Tape Log

Flight 200828 HAircraft 42 Operator M, Black Sheet 1 of Time On Time Off (HHMMSS) Tape # (HHMMSS) Comments × 184210 751 Heads 75 eye - Yoru Along NEeyew K SE they 84500 192300 WH Holg North -× 195200 92600 stopped Tai 204600 Hdg SE Ahre 200780 a eve running in Fast mode ±180 204600 213120 146 2130-fast scantoen D 213120- Fast Scan Swafeye to eye @ 2155 221344 2TB 213120 221017 - 2223# Fast Scan NE of eye Holg South Mara eye 2231 In eye 2 021344 225730

* Drive 1 down