94082241

19940822 HI-RADAR



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

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 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

nimo

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

MMD 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.

2. 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.

Doppler Radar Scientist Check List

	Flight ID 94082	241
	Aircraft #N 421	RF.
	Operators MARKS /	DORST
	Radar Tech Roce	5
Number	of digital magnetic tapes on boar	d
Number	of tape labels on board	?
	ent systems up and checked:	
	MARS	Computer HURRI
	DMTR1	DMTR2
	LF	R/T#
	TA	R/T# 101/102
Time co	prrection between radar time and o	digital time
Д.	Radar Postflig	ght Summary
Number	of digital tapes used:	DMTR1
		DMTR2
Significa	ant recorder down time:	
	DMTR 1	Radar LF
	DMTR 2	Radar TA 17 ning.
Other p	roblems: A restart of	TA & LF at ~ 177

HRD Radar Tape Log

Flight _	940822 H	Aircraft	42	Operator	DORST	Sheet_1 of _1	
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Tape #	Time On	Time Off	Comments
D1/T1	160125	183800	Picking up dust? on TA
•		•	
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		and the second	

HRD Radar Down-Time Log

Op	perator		Sheet of
Item	Time Down	Time Up	Problem
RT 101	116 23 2	1640302	Switched to R/T 102
<u>.</u>			

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

1701 Z - JA, LF reset,
1717 Z - DDW lauched
1736 Z - DDW splashdown
1838 Z - Stopped recording radar
when of findres Island
1848 Z - Radar System Shut off.

1994 HURRICANE SEASON -948822111 - Flying Jerry mission Thru Suharan Dust Tirv Mass. LPS- Dr F Marries, Seascatt. Dr PBiack, IVAN Popolofonuja, ODW James Franklin, rodar, SFIMR N. Dorst T/0 15:35 Z San Juan, PR LAND-19:55 Z- Spar Locka, FL 1550 Z - J. Roles startes ladar sighten, aubring it to warm up 1601 Z - Started recording 47/Th in Drive #1 fanting PR 16047 - End roll #1 1606262 - Start roll # 2 161106 2 - End roll # 2 61335 Z - Start double roll 1019252 - End " ~1023 7 - TA radar stopped MTing so I Keles & Co Ewitch RT 101 and to RT 102. 1038332 - Turn toward Cb 16 40 30 Z - TA XMT ma agam 1641 202 - Punch clouds 1643 Z- fruch clouds 1645557 - Begin weent Souding 165530 Z - Begin asient Someting 1659 Z - TA restarted