19900831HI_RADAR

AUG 3 1 1990

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 P	refligh	nt
	1.	Determine the status of equipment and report results to the on-board lead project scientist (LPS).
V	2.	Confirm mission and pattern selection from the on-board LPS.
<u> </u>	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	n-Fligh	nt .
	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 F	Postflig	pht
	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.
	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 AOC 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.

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Doppler Radar Scientist Check List

Flight ID 9008	3/4/
Aircraft # NOAA	42RF
Operators M. B	lack
Radar Tech. 57.m	Roles
Number of digital magnetic tapes on boo	ard
Number of tape labels on board	- 70
Component systems up and checked:	
	Computer //
MARS	Computer
DMTR1	DMTR2
LF	R/T# 121
TA	R/T# None, 9023 on handle
Time correction between radar time and	d digital time
Radar Postf	light Summary
Number of digital tapes used:	DMTR1 4 2400' DMTR2 4 2400', 6 1200'
Number of digital tapes used.	DMTR2 42400', 6 1200'
Significant down time:	
	1 - 2
DMTR18043-end	Radar LF
DMTR 2	Radar TA 2043 - 2101 System hung up because tare
Other problems:	System hung up because Tare
Radar beca	me blocky again like yesterdan
~ 1846, then ok,	antenna seemed to be in
partial fast mode	me blocky again (like yesterdam) noterna seemed to be in but said cont.
RUN Says - 15 P	ver though display cools
normal, BASK	tapes from 43 causes lay check a lot, will, pes from 42, then 1200
tage drive to disp	lay check a lot, will,
use remaining to	pes from 4 L, Then 1200

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HRD Radar Down-Time Log

*	m p1 h	1 /
Operator _	M. Black	Sheet of

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
System	2043	2101	Prive 1 gommed up, hur can't write to it
DMTRI	2043-	2101 end	can't write to it
			5.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		7	
**************************************		3. Th	
	i i		
*			

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

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HRD Radar Tape Log

Energetics

Flight 9008314/ Aircraft 42 Operator 10 Black Sheet of 1

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	comments
DITI	162245	165900	ifily to IPI, eye at 1650, Lag south
DOTI	165900	1735	south total east to #3, north to 4
0172	1735	1817	west to eye, 1752 in eye, worthof
0272	1817	1854	downward leg
DITZ	1854	1925	took rader down in eye ~ 1928 (see Pr
0273	1934	1957	in size, holy eas to xt 4
0174	1957	2012	north of eye - took type
0274	2012	2042	Inexe 2030
0275	2101	211300	5000 ft swof eye fowerd eye
0276	211429	213055	Prive Idoun, ete 2120
0217	213320	214715	Fast - good band
0278	214920	220650	half for eye, In eyo 2200
0219	220845	222252	Clamb to 20,000 Ft
02710	222601	12240	last eye
A			
			The same of the sa
	6		

12001