A8809 IGHI_ 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 checklists 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 onboard 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/RS and the on-board LPS.

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 Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.

E.5.2 In-Flight

 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

- 1. Complete the summary checklists and all other appropriate checklists and forms.
- 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.

RESOGIGATE RADAR Form E-5 Page 1 of 4 Radar Scientist Checklist Flight ID Aircraft # Operators _____ Radar Tech Number of digital magnetic tapes on-board_____ Number of tape labels on-board Component systems up and checked: RDSC DSC1 Computer_____ DSC2 DMTR1 DMTR2 LF_____ R/T#_____ TA R/T# Time correction between radar time and digital time _____ Radar Postflight Summary Number of digital tapes used DMTR 1_____ DMTR 2_____ Significant recorder downtime: Radar LF DMTR 1 Radar TA_____ DMTR 2 Other problems:

FLIGHT	880916 h	// AIRCRAI	FT 42	RF (OPERATOR Willis SHEET OF
Tape #	Time On	Time Off	Source TA	Radar LF	Comments
01 井/	04/2/00	0400/25	V	~	TILT + 3° setting reading
02 #1	0040/25	0503/20	~	~	
01 #2	0503/20	0529/00	~	~	0503 TILT ~ 1.6
02 # 2	0529/00	0554/00	~	~	
01 #3	0554/2	0621	\checkmark	~	
12 #3	0621	0645			
DI #4	0645	07/1			
D2#4	(17)	0736			
D1 #5	0736	0802/15			
02 #5	0802	0827/30			
D1 #6	0827/30	0853			
D2#6	0853	0919			
D1 #7	0919	0945			
		Contraction of the second			

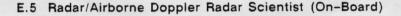
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HRD RADAR LOG

OPERATOR______ SHEET_____OF_____

RADAR DOWN-TIME LOG ITEM TIME DOWN TIME UP PROBLEM

ITEM LIST: VTR, DMTRI, DMTR2, COMP, ROSC, LF, NO, TA, DSCI, DSC2



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

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4.

880916141

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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.
- V

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

- 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 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.

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Radar S	cientist (Check	List
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1,1

Flight ID							
Aircraft #							
Operators							
Number of digital magnetic tapes on board							
Number of tape labels on board		-					
Component systems up and checked:							
RDSC	DSC1						
Computer	DSC2						
DMTR1	DMTR2						
LF	R/T#						
ТА	R/T#						
Time correction between radar time and digital time							
Radar Pos	stflight Summary						
Number of digital tapes used:	DMTR 1						
Number of aight tapes about	DMTR 2						
Significant recorder down time:							
DMTR 1	Radar LF						
DMTR 2	Radar TA						
Other problems:							

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HRD Radar Tape Log

Flight 880916H1 Aircraft 42RF Operator Roles Sheet 1 of 1

Tape #	Time On	Time Off	Source TA	Radar LF	Comments
1		055245	~		· · · · · · · · · · · · · · · · · · ·
2	0603/50		/		and the second second
3	0722/24	0739/20			
4	0742/12	0861/10			
5	0828/35	0898/20			
	/				
5					
	- Standy Sec				
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			and the state of the		
		and the second		2. 19	
1					

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HRD Radar Down-Time Log

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Ope	erator		Sheet of
Item	Time Down	Time Up	Problem
			-

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