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 Pr	efli	g ht
V.	ić	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/RS and the on-board LPS.  Every ofter sweep LF every sweep tail  Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.
E.5.2 In	n-Fli	ght
	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	Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

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.

Pas

Form E-5 Page 1 of 4

Radar Scientist Checklist

SEP 29 1937.

Flight ID 870929 I/						
Aircraft #N43 sf						
operators Leighton (M. Black?)						
Radar Tech Gonzalez L-tech Schrieder						
Number of digital magnetic tapes on-board 29+						
Number of tape labels on-board						
Component systems up and checked:						
RDSCDSC1						
Computer DSC2						
DMTR1DMTR2						
LF						
TA						
Time correction between radar time and digital time						
Radar Postflight Summary						
Number of digital tapes used DMTR 1						
DMTR 2 2						
Significant recorder downtime:						
DMTR 1 Radar LF						
DMTR 2 Radar TA 1910 > 1915						
Other problems:						
OmTR 1 finish adder only 15 min for type # 1/2						
valuour reason						

- Pas.

Form E-5 Page 2 of 4

# HRD RADAR TAPE LOG

SEP 29 1987

					3El % 0 1991
FLIGHT	870929	I) AIRCRA	F7VOAA	43	OPERATOR Leighton SHEET OF
Tape #	Time On	Time Off	Source	Radar LF	Comments
1/1	173132	1858?			the every other sweep tail Notstail
					1818/8 tail started
2/1	153?	1943			1910 = 1915 tail down?
1/2	1943	1958?			tope should off can Wiking
1/2	1173	(138 ,			type stopped atter on by Suni probably thought of the ves an
2/2	1958	20 4545			at 20 4 It was over
					continued forerordanging
1/3					until 20 45 45
7		1110			
				k.	
				*	
				Ak !	
			fra in		
		78			
				1	

Bas.

## HRD RADAR LOG

OPERATOR Leighton
SHEET OF

RADAR DOWN-TIME LOG

RADAR DOWN-TIME LOG				
Tail Radar	1910 ?	1915 7	AFC problem	
			Pas,	
	·			

#### 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.)

			neral supplementary procedures follow. (Check off and initial.)
DET 29		eflig	ght
			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/RS and the on-board LPS.
	~	4.	Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.
	E.5.2 In	-Fli	ght
		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 Po	stfl	ight_
		1.	Complete the summary checklists and all other appropriate checklists and forms.
		2.	Brief the on-board LPS on equipment status and turn in complete 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).

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.

b. In Miami - to MGOC or to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with

### Radar Scientist Checklist

Flight ID 87092	9 H I					
Aircraft # 43	Aircraft # 43					
operators Gamache, Ble	et M.					
Radar Tech Terry Sch						
Number of digital magnetic tap						
Number of tape labels on-board	~ 100					
Component systems up and check	ed:					
RDSC	DSC1					
Computer	DSC2					
DMTR1	DMTR2					
LF_	R/T#					
	R/T#					
Time correction between radar						
Radar Postf	light Summary					
Number of digital tapes used DMTR 1						
	DMTR 2					
Significant recorder downtime:						
DMTR 1	Radar LF					
DMTR 2	Radar TA					
Other problems:						

Form E-5 HRD DOPPLER RADAR TAPE LOG Page 4 of 4 OPERATOR M. Black SHEET | OF ) FLIGHT 87092941 AIRCRAFT 43 SOURCE\* TAPE NO. TIME ON TIME OFF V, H, S COMMENTS \*\* (#pulses, scan rate, range) 182408 84455 191300 2002 200525 2026 00 EOF 6 202900 203800 FOF 16

<sup>\*</sup>Vertical, Horizontal, or Full Sweep Scan

<sup>\*\* #</sup> of pulses averaged (32,64,128,256); scan rate(Min,Max); range resolution(150m, 300m)

Form	E.	-5	
Page	3	of	4

# HRD RADAR LOG

RADAR DOWN-TIME LOG

TAAFC	1901 - 1958 1914	19 (4)	Afe was dufting during first put of flight.  Veflectivities are trush but should be enough imfamation to make to make to pley takes later the dBZ's were great
		,	