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

19920922J1-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.
- Complete the appropriate preflight calibrations and check lists 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 on-board LPS or as required for aircraft safety as determined by the AOC 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 AOC flight director.]

- 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 <u>920921</u> Aircraft # <u>43 RF</u> Operators <u>Leign</u> Radar Tech.	to- Al Goldskein / Salita?,			
Number of digital magnetic tapes on board.	20+			
Number of tape labels on board	Chough			
Component systems up and checked: 60 rrl Selfue TA ref 1.8				
MARS UP C	Computer <u>P</u> DMTR2 <u>P</u>			
LF JP F	AT# SN102 (SN 103 LFF			
TA UP F	SN201 SN102 SPACE			
Time correction between radar time and digital time				
Radar Postflight Summary				
Number of digital tapes used:	DMTR1 <u>5</u> DMTR2 <u>4</u>			
Significant down time:				
DMTR 1 F DMTR 2 F	Radar LF Radar TA & min			
Other problems:				

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HRD Radar Tape Log

Flight <u>92052</u> AII Aircraft <u>43RF</u> Operator <u>Leighten</u> Sheet <u>Lof</u>					
Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments		
1-1	042000		sterted Recording storted w/feston kil		
		051730	0448 switched from fest to Cont for		
2-1	051738		705.		
		052845	changed to first cont torn to NE.		
		nsssos	chinged to cont, westundly		
		061715	center at and of tape 061930		
1-2	061715		west track Center afstatot type		
		663945	suitched to fast		
		065220			
2-2	065220				
	-	065454	Switch el back to cont, trach 45°		
	0725	()73333	Tail Rader stopped??! Reason Unhan		
		073905	Fast firredon		
4ª	674335	074355			
1-3	074355				
		080310	Fast off heading to 135°		
	1.000	083710			
2-3	083710		0845 climb for electritication		
		092210			
1-4	092210	095605			
2-4	095605	103141	0989 Johnsonts fest on 417		
1-5	103141		4		
		11:00:00	Jurned off at 11:00:00		

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Form E-5 Page 3 of 3	HRD Radar Down-Time Log			
Operator <u>Leighton</u>			Sheet of	
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem	
tijl Reder	0725	6733	Tail redar hung up	
			1-2-1 05 A38	
	1467	N. Fargers		
12				
		1777 (1979) 1977 - No. 1989-199		
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Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.