

~~SEP 24 1994~~

SEP 25 1994

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

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

- 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.

Doppler Radar Scientist Check List

Flight ID 940925I
Aircraft # N432F
Operators WILLOUGHBY
Radar Tech. LYNCH

Number of digital magnetic tapes on board PLENTY

Number of tape labels on board do

Component systems up and checked:

MARS	_____	Computer	_____
DMTR1	_____	DMTR2	_____
LF	_____	R/T#	_____
TA	_____	R/T#	_____

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used: DMTR1 _____
DMTR2 _____

Significant recorder down time:

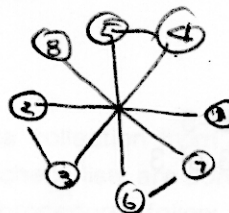
DMTR 1	_____	Radar LF	_____
DMTR 2	_____	Radar TA	_____

Other problems:

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Form E-5
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HRD Radar Tape Log



Flight 940925L Aircraft N437F Operator WILLOUGHBY Sheet 1 of

Tape #	Time On	Time Off	Comments
<u>1</u>	<u>25/1937</u>	<u>2219</u>	
	<u>1940</u>		<u>OLIVIA VISIBLE AT EXTREME RANGE CONCENTRIC EYEWALL? FAST ON 10 RPM ON TA</u>
	<u>1943</u>	<u>1943</u>	<u>LF + REWIND TAPE ↓</u>
<u>1</u>	<u>1953</u>		<u>RECORDING RESTARTED ON TAPE ↓</u>
	<u>1955 30</u>		<u>FAST ON</u>
	<u>2023</u>		<u>IP, FAST OFF, W → 6</u>
	<u>2032</u>		<u>18-58 120-03 6 TRACK W</u>
	<u>2048</u>		<u>TURN 3 E FAST ON</u>
	<u>2054</u>		<u>FAST OFF TRACK NE → 6</u>
	<u>2106</u>		<u>925 19-02 120-04 6 TRACK NE</u>
	<u>2118</u>		<u>FAST ON TRACK NW</u>
	<u>2127</u>		<u>FAST OFF TRACK S → 6</u>
	<u>2138</u>		<u>19-05 120-02 6 TRACK S</u>
	<u>2150</u>		<u>FAST ON TRACK NE</u>
	<u>2158</u>		<u>FAST OFF TRACK NW → 6</u>
	<u>2211</u>		<u>935 19-13 120-05 6 TRACK NW</u>
	<u>2219</u>		<u>RADAR ↓</u>
<u>2</u>	<u>2235</u>	<u>260200</u>	<u>RADAR ↑ RECORDING</u>
	<u>2237</u>		<u>TRACK E → 6</u>
	<u>2249</u>		<u>19-16 119-58 6 TRACK E</u>
	<u>2300</u>		<u>FAST ON TRACK NW</u>
	<u>2308</u>		<u>FAST OFF TRACKING SW → 6</u>
	<u>2317</u>		<u>19-19 119-59 6</u>
	<u>2328</u>		<u>FAST ON</u>

1910
12010

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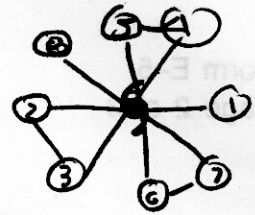
HRD Radar Tape Log

Flight 950925I Aircraft N432F Operator WILLOUGHBY Sheet 2 of 2

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
<u>2</u>	<u>2328</u>		<u>FAST ON TILT MAY HAVE BEEN 10°</u>
	<u>2337-35</u>		<u>TRAK N → G</u>
	<u>2349</u>		<u>1924 11956 G</u>
	<u>0011</u>		<u>TURN 180 TRAK S → G</u>
	<u>0012</u>		<u>19-28 119-58 G TRAK E → P.V.</u>
	<u>0018</u>		<u>START CLIMB E OF G →</u>
	<u>0058</u>		<u>RECORDING OFF BY ACCIDENT</u>
	<u>0113</u>		<u>RECORDING BACK ON LP ONLY</u>
	<u>0200</u>		<u>RECORDING OFF</u>

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HRD Radar Down-Time Log



Operator WILLOUGHBY

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Item	Time Down	Time Up	Problem
RADAR	2219	2235	WOULD NOT RESET
DMTR1	260058	260113	OPERATOR ERROR

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