19908301I1-RADAR

AUG 3 0 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 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 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 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.]

_____ 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 90830I1

Aircraft # 43

Operators Dodge, Burpee

Radar Tech. Goldstein

Number of digital magnetic tapes on board enough (at least 23)

Number of tape labels on board enough

Component systems up and checked:

MARS		Computer	
DMTR1		DMTR2	
LF		R/T#	123
TA		R/T#	204

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used: DMTR1 2

DMTR2 2

Significant down time:

DMTR 1		Radar LF	
DMTR 2		Radar TA	

Other problems:

noise in TA started 2008

Tape 1-1 stuck at unload - finally got out - then next tape wouldn't write.

2059 - SYSTEM BACK UP

NOTE TAPE SEQUENCE:
1-1, 2-1, 2-2, 1-2

AL G. found loose BNC for TAIL's. Tightened it and noise was gone.

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HRD Radar Down-Time Log

Operator Podge Sheet 1 of ___

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem

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

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HRD Radar Tape Log

Flight 90830I1 Aircraft 43 Operator Dodge, Burpee Sheet 1 of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Every TA every other LF Comments
1-1	1916	?	BASF endura got stuck ON UNLOAD
1-1	?	~~2057~~ 2052	F/AST ON 2018 - 202624
~~1-2~~	~~1957 2052~~ 2052	2 → ?	F/AST ON NO GOOD 203841 ~~TAPE~~ TAPE ~~NG~~ FU
2-2	2058	2142	2133 - climb out.
1-2	2142	2234	TA off 2202 2221 see Bermuda on LF
			2228 LF to 0.5 RPM