19870925HI-RADAR

SEP 25 1987

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

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

Flight ID 870925H

Aircraft # 42

Operators ____________ ____________

Radar Tech AL JARVI

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# 102M

TA √ R/T# 107

Time correction between radar time and digital time -2

Radar Postflight Summary

Number of digital tapes used DMTR 1 3

DMTR 2 2 = 5

Significant recorder downtime:

DMTR 1 NO Radar LF NONE

DMTR 2 NONE Radar TA OFF

Other problems:

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HRD RADAR TAPE LOG

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FLIGHT 870925H1 AIRCRAFT 42 OPERATOR _____ SHEET ___ OF ___

Tape #	Time On	Time Off	Source Radar TA	Source Radar LF	Comments
D1/T1	203430	~2150		✓	
D2/T1	~2150	2320		✓	
D1/T2	2320	0027		✓	
D2/T2	0032	~0200		✓	
D1/T3	~0200	0242		✓	END DATA COLLECTION

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HRD RADAR LOG

OPERATOR_____

SHEET____ OF ____

RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM

ITEM LIST: VTR, DMTR1, DMTR2, COMP, ROSC, LF, NO, TA, DSC1, DSC2