19851009HI-RADNR

OCT 9 1985

E.4 Radar Scientist (On-Board)

This individual is responsible for data collection from all radar systems on board his or 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.4.1 Preflight

MB ✓ 1. Determine status of equipment and report results to the on-board lead project scientist (LPS).

MB ✓ 2. Confirm mission and pattern selection from on-board LPS.

MB ✓ 3. Select operational mode for radar system after consultation with HRD radar scientist and on-board LPS.

MB ✓ 4. Complete appropriate preflight calibrations and checklists as specified in the radar operator's manual.

E.4.2. In-Flight

MB ✓ 1. Operate system as specified in the operator's manual and as directed by the HRD radar scientist, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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.4.3 Postflight

✓ MB 1. Complete summary checklists and all other appropriate checklists and forms.

✓ MB 2. Brief on-board LPS on equipment status and turn in completed forms to LPS.

✓ MB 3. Hand-carry all radar tapes and arrange delivery as follows:

a. Outside of Miami - the HRD operations center.

b. In Miami - the HRD/AOML offices.

_____ 4. Debrief at operations center.

_____ 5. Determine status of future missions and notify operations center as to where you can be contacted.

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Radar Scientist Checklist

OCT 9 1985

ISABEL

Flight # 851009H1

A. C. # 42RF

Operator M. Black

Radar Tech. Terry Schricter, Randy Stone

Number of digital magnetic tapes on board 18

Number of video tapes on board N/A

Number of tape labels on board Plenty, Mucho

Component systems up and checked:

RDSC	✓	VTR	N/A
Computer	✓	DSC1	✓
DMTR1	✓	DSC2	✓
DMTR2	✓	Scopes	✓

NO N/A

LF ✓ 20Z

TA ✓ 20Z

Time correction between radar time and digital time + 1 sec

Radar Postflight Summary

Number of digital tapes used DMTR 1 5

DMTR 2 5

Number of video tapes used N/A

Significant recorder down time (other than for tape changes):

DMTR:	LF	None	VTR:	LF	X
	NO	N/A		NO	
	TA	None		TA	

Other problems: (stabilization, interference, etc.)

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ISABEL
HRD RADAR TAPE LOG

FLIGHT 851009H1 AIRCRAFT 42RF OPERATOR M. Black SHEET 1 OF 1

TAPE #	TIME ON	TIME OFF	SOURCE RADARS NO	TA	LF	REWOUND? YES	NO	COMMENTS
01T1	2033	2113	—	✓	✓	✓		Recording LF TA every 2 sweeps Not much to record, Blob N. of Ctr
02T1	2113	2151	—	✓	✓	✓		Blob N. of Ctr
01T2	2151	2231	—	✓	✓	✓		Some Batwings
02T2	2231	2308	—	✓	✓	✓		Some more Batwings
01T3	2308	2344	—	✓	✓	✓		Large blob of convection N. of Ctr steady 65 kts
02T3	2344	0023	—	✓	✓	✓		Nothing Much to record
01T4	0023	0102	—	✓	✓	✓		Very little, just blob @ 120 mi range
02T4	0102	0141	—	✓	✓	✓		Feeder band E of Ctr
01T5	0141	0220	—	✓	✓	✓		Some banding N.W. of Ctr 4.0 SE
02T5	0220	0257	—	✓	✓	✓		Beg. in Ctr, possible eyewall?