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

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

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

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

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

E.4.2. In-Flight

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 Operate system as specified in the operator's manual and as directed by the HRD radar scientist, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

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

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

✓ KeK 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

Flight # _840923 H_

A. C. # _N42RF_

Operator _Kohler_

Radar Tech. _Berles / Jarvi_

Number of digital magnetic tapes on board _16_

Number of video tapes on board _3_

Number of tape labels on board _enough_

Component systems up and checked:

RDSC	✓	VTR	✓
Computer	✓	DSC1	✓
DMTR1	✓	DSC2	✓
DMTR2	✓	Scopes	—

NO _—_

LF _✓_

TA _✓_

Time correction between radar time and digital time _— 1ˢ_

Radar Postflight Summary

Number of digital tapes used   DMTR 1 _5_

DMTR 2 _4_

Number of video tapes used _1_

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

DMTR:		VTR:	
LF		LF	
NO		NO	
TA		TA	

Other problems: (stabilization, interference, etc.) _NONE_

Form E-4
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HRD RADAR TAPE LOG

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FLIGHT _840923H_ AIRCRAFT _N42RF_ OPERATOR _Kohler_ SHEET _1_ OF _1_

TAPE #	TIME ON	TIME OFF	SOURCE RADARS NO	TA	LF	REWOUND? YES	NO	COMMENTS
								LF every other sweep; Tail every sweep
VTR 1	221100	200100		✔	✔		✔	
D1T1	222000	2258		✔	✔	✔		TA on MIN ~~to 00~~
D2T1	2258	2329		✔	✔	✔		TA to MAX 231300
D1T2	2329	2354		✔	✔	✔		
D2T2	2354	001938		✔	✔	✔		
D1T3	001938	0045		✔	✔	✔		
D2T3	0045	011119		✔	✔	✔		
D1T4	011119	0737		✔	✔	✔		
D2T4	0737	0203		✔	✔	✔		
D1T5	0203	022906		✔	✔	✔		

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OPERATOR Kohler

SHEET 1 OF 1

HRD RADAR LOG

RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM

ITEM LIST: VTR, DMTRI, DMTR2, COMP, ROSC, LF, NO, TA, DSCI, DSC2