E.5 Radar Scientist

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 | | | | |
|-------|---|--|--|--|--|
| V | Determine the status of equipment and report results to the on-board lead project scientist (LPS). | | | | |
| V | 2. Confirm mission and pattern selection from the on-board LPS. | | | | |
| | Select the operational mode for radar system(s) after consultation with the on-board LPS. | | | | |
| _ | Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual. | | | | |
| E.5.2 | In-Flight | | | | |
| | 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. | | | | |
| | Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status. | | | | |
| E.5.3 | Post flight | | | | |
| | 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 LPS. 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 MGOC or the hotel during a deployment. | | | | |
| | Determine the status of future missions and notify MGOC as to where you can be contacted. | | | | |

HRD Radar Scientist Check List

| Flight ID: <u>030</u> | 914I | | | | | |
|---------------------------------|--|--|--|--|--|--|
| Aircraft Number: | 43 | | | | | |
| Doppler Radar Op | Doppler Radar Operators: MIBlack Sum Abersin | | | | | |
| | Terry Lynch | | | | | |
| Number of digital | magnetic tapes on board: AO | | | | | |
| Component Systems Status: | | | | | | |
| MARS | Computer | | | | | |
| DAT1 | | | | | | |
| LF | R/T Serial # | | | | | |
| TA | R/T Serial # | | | | | |
| TAIC 5/ | ev. Ansles all over the place rection between radar time and digital time: | | | | | |
| | Radar Post flight Summary | | | | | |
| Number of digital tapes used: [| DAT1 | | | | | |
| 83) an crand basisas of | DAT2 | | | | | |
| Significant down time: | of the visibles against up a regardable) for this of the P | | | | | |
| DAT1 | Radar LF | | | | | |
| DAT2 | Radar TA | | | | | |
| Other Problems: | A Cebrus a MCCC or the hotel stating a depopulation | | | | | |

Error Messages TA ANT ELEV ROS LFANT AZIM POS

Form E-5 Page 2 of 3

| Flight <u>030</u> | _Aircraft <u>43</u> c | Pperator S, Alexandra Sheet of _ | |
|----------------------|------------------------|---|--|
| | LF RPM | TA RPM | |
| (Include start and a | and times of DATe. see | vall as times of E/ACT to as and assumb | |

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

| Tape # | F/AST On? | Event Time (HHMMSS) | Event |
|--|--------------|------------------------|------------------------------|
| DR2 | NO | 1510 | Stanttape-Ferry Gram St. O. |
| 1. 1/ | NO | 1511 | TAIL elevation angles -9 |
| | _ | 1513 | Descent to 3000' For BAT |
| | | 151707 | skart Box pattery |
| | | 151918 | Turn cress ward box patter |
| | | 152005 | Top. cross word-3000 Rt |
| | ~ | 1540 | end BATCG |
| | | 1545 | King on redar 150mious |
| | 10.10 | 1552 | Near CdIS-NOF/AS- |
| 2 | NO | 1616 | Sw. tched to confinous - F). |
| | NU | 1626 | outer cons, bard |
| | | 1631 | TO 50 miles south of |
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Form E-5 Page 3 of 3

HRD Radar Down-Time Log

Flight 309/4 Aircraft 43 Operator Milklet Sheet of ____

| item | Time Down (HHMMSS) | Time Up (HHMMSS) | Problem |
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Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.