

31 9 118 108(1) 22/2/26 26/3/26
38/3/25
22/2/26
26/3/26

RR

DE 4773 2362253

ZKZK RR ALO DE

R 242252Z

FM DSD

TO AUSLO(W)

ZEM

~~SECRET COMINT CHANNELS. DA494.~~

ARDF.

THANKS YOUR 221738.

2. SHORT ANSWER TO PARA 2 IS THAT NO (R) NO DETAILS HAVE BEEN PUBLISHED. EQUIPMENT IS STILL HIGHLY EXPERIMENTAL AND UNDOUBTEDLY WILL BE SUBJECT TO SEVERAL MODIFICATIONS. INDEED, ONE OF THE REASONS FOR THE OPERATIONAL TRIALS IS TO DETERMINE JUST WHAT SORT OF MODS WILL BE NECESSARY.

3. METHOD OF OPERATION, TOO, WILL BE TAILORED TO MEET THE OPERATIONAL REQUIREMENT. BASICALLY, AIRCRAFT WILL FLY ALONG A PRE-PLANNED COURSE AND WILL TAKE BEARINGS AS OPPORTUNITIES ARISE (I.E. WHEN TARGET TRANSMITTER IS KEYING). ON COMPLETION OF FIRST RUN (AND ASSUMING TX STILL ON THE AIR) AIRCRAFT WILL TURN ON TO A SECOND PRE-PLANNED COURSE AND PROCEED AS BEFORE. OBVIOUSLY, THE MORE BEARINGS TAKEN AND THE MORE TRACKS FLOWN THE BETTER THE VALIDITY OF THE FIX. PILOT WILL ENSURE AIRCRAFT IS KEPT AS STRAIGHT AND LEVEL AS POSSIBLE AND WILL CONCENTRATE ON ACTUALLY FLYING THE AIRCRAFT ALONG A CONSTANT HEADING. EQUIPMENT WILL BE OPERATED BY EXPERIENCED INTERCEPT OPERATOR FAMILAR WITH THE TARGET TRANSMISSIONS. SUCH QUESTIONS AS TIP OFF FROM GROUND BASED INTERCEPT SITE, REPORTING OF FIXES, ETC. HAVE YET TO BE DETERMINED. IN OTHER WORDS, WE EXPECT THE OPERATIONAL TRIALS TO SHOW US WHAT HAS TO BE

DONE AND WE WILL THEN SPECIFY PROCEDURES TO BE EMPLOYED.

108(1) A

4. AIRCRAFT DOES NOT (R) NOT HAVE ANY SOPHISTICATED NAVAIDS FITTED
SO VISUAL FLYING CONDITIONS ARE REQUIRED.

5. EQUIPMENT CONSISTS OF TWO FERRITE ~~ROD~~ AERIALS (TUNEABLE)
BOTH MOUNTED IN SAME PLANE BUT AT APPROX SIXTY DEGREES TO EACH
OTHER. AERIALS ARE CONTAINED IN A +POD+ WHICH PROJECTS BELOW
FUSELAGE (RETRACTABLE FOR LANDING/TAKE OFF) AND ROTATE WITHIN
+POD+. OPERATOR TUNES SIGNAL ON RACAL RA-217 RX THEN ROTATES
AERIAL UNTIL EQUAL AMPLITUDE (DISPLAYED ON CRT) OBTAINED
FROM EACH OF THE TWO AERIALS, MAXIMUM SIGNAL RATHER THAN NULL
IS USED. OBVIOUSLY MORE COMPLICATED THAN ABOVE (E.G. ONE HAS TO
ENSURE THAT BOTH AERIALS HAVE EXACTLY THE SAME SENSITIVITY/PICK
UP) BUT THE ABOVE WILL PROBABLY BE SUFFICIENT FOR TIME BEING.
4. MUST AGAIN STRESS THAT IT IS EXPERIMENTAL AND COULD BE
RADICALLY ALTERED AFTER (OR DURING) TRIALS.

500

NNNN

DIST AD(C) DP QAR+++

150