

physically check all measurements of distance, angle, latitude, and longitude with plotting tools.

51 **Item #24.** Check the labeling. The KP is a triangle symbol with no label. Single LOPs are labeled with the zone time of the sight to the nearest minute above the LOP and the name of the body below. The first fix LOP is labeled with the zone time of the sight to the nearest minute followed by a dash, then the zone time of the fix to the nearest minute. This is above the LOP, and the name of the body should appear below the LOP. The second fix LOP is labeled with the zone time of the fix above the LOP and the name of the body below. The fix symbol is a circle and is labeled with the zone time of the fix placed horizontally.

52 **Item #25.** Measure the intercept distance and the azimuth direction. Make certain that the LOP is  $90^\circ$  to the azimuth and that the dashed azimuth line terminates at the LOP. The EP symbol is a square. The KP-LOP distance *must not exceed 5 miles*. For the fix the smaller angle between the LOPs *must be  $45^\circ$  or more*. Check the angle carefully and if it is not clearly  $> 45^\circ$  by protractor, calculate it mathematically. The distance between each LOP and the KP must be 5 miles or less; however, the distance between the KP and the fix can exceed 5 miles.

53 **Item #26.** This is for plotting errors not specifically addressed under other Items. An example would be a fix or EP position incorrectly recorded on the CLS form.

## The Completed Sight Folder

54 *Leave the SV form unsigned until all corrections are made to your satisfaction.* With uncorrected errors, the sight folder is not ready for submittal. Remember, the error you miss may be a disqualifying one.

55 Ensure that *two* copies of the JNSK form (Key to Sightings) are included and properly filled out.

56 When you are satisfied that the sight folder meets all requirements, sign the SV form and have the candidate make photocopies of the entire folder. In the unlikely event that the folder is lost in the mail, the photocopies will be accepted with the Course Chairman's approval.

## Re-Submittal

57 Upon re-submittal, ALL errors and omissions noted must be corrected. For rejected sightings, NEW SR and CLS forms must be attached to the originals. All original work must be returned with the resubmitted folder.

## Common Errors

58 The errors most commonly found in sight folders are listed in this section. Some of the errors listed will be immediately apparent; others will not. It cannot be stressed too strongly that the sight folder must be completely verified by the Sight Checker. If each entry and each arithmetic operation is not verified, errors can be overlooked.

59 To be of the greatest service to the candidate, note the location of errors but do not give the correct information or value. By rectifying the error, the candidate will learn and be better able to guard against a repetition of similar errors in the future.

1. Sight folder improperly checked by the squadron.
2. Transcription errors from log to SR form.
3. Computations omitted.
4. Arithmetic errors.
5. Azimuth spread for fixes not within tolerance.
6. Dip/Dip Short errors, tables other than USPS tables used, errors in formula calculation and in the extraction of data from the Almanac.
7. Hour angle of body—incorrect data from NA such as sun for Aries or vice versa, or incorrect date.
8. Reversal of minutes and seconds from yellow pages or wrong yellow or tinted page column used.
9. Log errors.
10. Improper signs for corrections.
11. Incorrect entering arguments for data extraction.

12. Improper column used for sun's "main" correction: Oct-Mar/Apr-Sept.
13. Only one copy of Key to Sights (JNSK) included in the folder.
14. Insufficient sights logged.
15. Incorrect or missing labels on plot.
16. Candidate's name and squadron not on each sheet.
18. Failure to note use of Daylight Saving Time.
19. Runs of sights in which no sequence of three sights showed consistently increasing or decreasing values for  $h_s$  (except when the body is within  $10^\circ$  of the observer's meridian).
20. Incorrect sign of "d," especially for moon sights.
21. LOP over 5 miles from the KP.
22.  $H_o$  under  $15^\circ 00.0'$ .
23. Observations for the two-body fix more than 20 minutes apart.