

STAT



[Handwritten signature]

Separate Copy
Separate Copy

July 21, 1964

BINOCULAR TUBE MAGNIFIER

[Handwritten mark]

STAT



Declass Review by NGA.

The enclosed letter from dated 17 July briefly discusses what they think they can do in a 10x binocular tube magnifier. Their description is quite brief and does not go into much illustrative detail which is exactly what we asked them to do when Bill M., George T., and I visited them in June.

STAT

STAT

If you think concepts are appropriate and worth considering, they will go into the second phase of the proposal which would rough out the design approach and performance and give an order of magnitude of cost. If that, in turn, looks good, they would then prepare a definitive priced proposal.

In order for a three-stage procedure to be successful, it is necessary for you to comment at each stage to provide guidance and direction for the following stage. Such comments are valuable for illuminating and clarifying the thinking on both sides.

1. Is the 1/2" field mentioned by good or marginal? Are extraordinary means desirable to obtain an even wider field of view?
2. Is it important to get more than 67 lines per millimeter resolution at the object or is that adequate?
3. With respect to distortion, color fringing, and brightness, what do you consider the best existing magnifier? What microscope do you consider as a performance standard?

STAT

STAT

did not discuss the 20x magnifier. Do you want separate comments on that or will you assume for the present a direct scaling from 10x?

Binocular Tube Magnifier

July 21, 1964

4. The mechanics of the magnifier were not discussed. They are intimately related to the detail design approach and must necessarily be defined later. The next stage proposal would probably only discuss a general arrangement and overall dimensions. What specifically do you dislike about existing magnifiers?

5. does not have a product line of tube magnifiers such as others. While their approach may have some fresh ideas, they will have to start from the beginning with a custom design. As such, the prototype may be more costly, so do you consider it worthwhile for them to continue the proposal effort?

STAT

STAT

STAT

Enc.