	Approved For Release 2003/12/04 : CIA-RDP78B05171A000101440	23 8	
		- Lin	Q.STAIT.
	December 17, 1968		
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	Dear Paul:		•
· · · · · · · · · · · · · · · · · · ·	I have returned from my trip to and have the following remarks to make.	ve	STAT
	1. The stereo comparator is indeed a tremendo complicated system.	ously	
	2. I completely agree with that su optical system would have cost a fortune in the U.S.A. is even doubtful if any optical company would have beer to complete it with the time schedule planned. The coswould probably run from three to five times as much.	It able	STAT
			•
	3. I quizzed the designers at length about th	le	
4	system and was satisfied that they were very competent, perienced, and had put a great deal of effort into the d	aaiam	•
	and were also deeply involved in the building of the sy	stem.	
	4. I was not able to find any obvious things had overlooked. I was surprised with how much they cla to have reduced the secondary color, but I concluded the	imed	
	glass to be too exotic to use in a practical design.	this	
	many difficult properties, such as easy to crack, stains easily, and tends to have striae. I questioned them a deal about this glass and they didn't seem to think it problem. They also claimed they could coat it with no culty. I hope they are right and that my fears are unjusted.	good was a liffi-	
	fied. It is too late now to change; it will be necessar	ry to	

wait and see.

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December 17, 1968 Page 2

5. There are so many surfaces that I questioned them at length about coatings. They were somewhat vague about this and indicated that they planned to use some three-layer coatings. I warned them that three-layer coatings can absorb badly in the blue end of the spectrum. They could also scatter light badly. I was not sure that three-layer coatings should be used unless they were sure that they were done by experts. They said they planned to use _______ to do their coatings. This is an excellent company and should do a good job.

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6. Everything about was old-fashioned, but probably adequate. Their rooms and working quarters were dismal and poorly lighted. Their workers were old and decreption. They will not be able to continue optics much longer without a major overhaul. Modern young people will not work under such conditions.

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- 7. is an exceptionally fine engineer and the whole project rests on his skill in working with these people. If it were not for him, I would give you a dim chance of ever realizing that instrument. You better take good care of him and treat him well. I was really impressed with him. He has things very much under control. Thank goodness I am not under his control. He is a taskmaster.
- 8. I am very sorry that an instrument of this complexity could not have been made in the U.S.A. I believe we must find a way to do so. I feel badly that we are encouraging the exploitation of people for this kind of work. We should have exploited machines. I admit it would have cost much more, but if handled properly, it would have cut future costs.
- 9. I could not recommend doing this again on future instruments, particularly if you don't have I predict this would have been a disaster without him.

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I would also like to report to you on two items pertaining to my last visit to your laboratory.

Approved For Release 2003/12/04 : CIA-RDP78B05171A000100010141-2

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		December 17, 1968	
		Page 3	
		I read a report on the micro densitometer and I believe you should be careful about the Their S	TAT
		report on the color correction of the objectives was very	1/\
		poor. Many of the statements were wrong and the color	
		curves they showed were incorrect. Their conclusions about	
	•	the apochromats showed a complete lack of understanding on chromatic correction.	
٠	• · · · · · · · · · · · · · · · · · · ·	I was particularly disturbed by the illuminator	
		for the pin hole. They referred to a paper by S	TAT
	•	25 Heft 1, 1967. I looked at this paper and it is okay, but	
STAJ		the pin hole illuminator doesn't make sense.	
		I wish you would send me the parameters on the	
		densitometer optics. I believe you have been sold a bill of	.
		goods and that it should be challenged. should Sknow better also.	TAT
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	•	Sincerely,	
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	\$ 100 miles		
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