

**SECRET**

26 August 1955

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MEMORANDUM FOR: THE RECORD

SUBJECT: Meeting at [REDACTED], on Telescoping  
Lens Barrel

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REFERENCE: Memorandum for C/TSS/TA/PD from AC/TSS/APD dtd  
13 July 1955, Subject: Request for Development  
of a Telescoping 48" Focal Length Lens1. Time and Place of Meeting: [REDACTED]

25X1

[REDACTED] on 15 August 1955, from 1100 to 1500.

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2. Attendance: [REDACTED]

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3. Purpose: To discuss the development of a telescoping  
barrel for a long focal length lens.4. Discussion:

a. A copy of the specifications attached to the above referenced memorandum was sent to [REDACTED] on about 13 July 1955. Discussions with personnel of [REDACTED] on 15 August 1955 revealed that they have determined that a satisfactory 48" lens was not readily available. The two lenses which were found to be optically suitable for the project in question were the 40" Astro, f-6.3 and the 35" Zeiss Apo-Tessar, f-9.0 which have the following approximate dimensions:

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	Astro	Zeiss Apo-Tessar
Focal Length	40"	35"
f - Number	6.3	9.0
Weight	3-6#(estimated)	12#
Diameter	6-1/4"	7-1/4"
Cost	\$800	\$875
Resolution (lines/mm, wide open)	85	200

NOTE: The dimensions on the Astro are according to manufacturer specifications and the Zeiss dimensions are as measured.

b. Zeiss makes an f - 9. 48" Apo Tessar lens of unknown dimensions and currently [REDACTED] is attempting to secure one of these lenses. These lenses have a nominal sale price of \$1,650, but will not be available for the 15 November deadline for this project/

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c. It was decided,

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c. It was decided, pending discussion with TSS/TA/PD, that [ ] would secure one of the Astro lenses for testing and incorporation in a collapsing lens barrel with the provision that one of the following alternatives would be selected to fill the requirement for the other two barrels.

25X1

(1) Two additional 40" Astros.

(2) One additional 40" Astro and one Zeiss 35" Apo Tessar.

(3) Two 35" Zeiss Apo Tessars.

(4) One 40" Astro or one Zeiss 35" Apo Tessar and one 48" Zeiss Apo Tessar (provided a 48" Zeiss Apo-Tessar is obtainable and optically suitable).

d. It is estimated that the lens barrel (without lens) will have an approximate weight of 5-10# (estimated). The housing will be black anodized and then covered with a flat black baked finish to achieve a non-reflective black exterior.

e. The barrel is being designed to adapt to either an Exacta with a bayonet mount or to a Leica with a reflex housing. It is requested that [ ] be supplied with a Leica with reflex housing and an Exacta with bayonet mount to facilitate their design of the barrel.

25X1

f. In the future, the lens testing will be carried out according to a standard procedure, the details of which will be reported to APD. The results will be forwarded by APD to be filed for any future work with long lenses.

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[ ]  
TSS/APD

## Distribution:

Orig. - AHP #30  
1 - TSS/PD  
1 - REL  
1 - Chrono

TSS/APD [ ] (29 aug 55)

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