Approved For/Release 2006/12/06/ CIA-RDP78B04770A000600030001	-3
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4 January 1966)

U. S. Government Weshington, D.C.

Attention: Contracting Officer

Subject: Task Order .o. 03(100,762)658

Basic Agraement

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Gentlemen:

under subject study of electrophotographic Processing Techniques, we are required to investigate the feasibility of applying modulated-light techniques to rear projection viewing. A three (3) month sub-study, scheduled for completion by the end of April 1960, has been cited in conversations with the Technical depresentative.

Accordingly, we are listing below, a detailed proposal of this sub-study for which we request early evaluation by the Technical hepresentative.

It is proposed that the investigation include, but not necessarily be limited to, consideration of the collowing conceptual projection systems:

- A. Scanned light types (in which the light is modulated, temporally, at the source)
 - 1. Projection cathode-ray tube
 - 2. Hodulated leser or other light bear
- Scanned large-area modulator types (in which the modulation may be spatial as well as temporal)
 - 1. Electro-optic orystal (for example, MDF or MD-P) with electron-beam charting
 - 2. Modified didophor
 - 3. Modified Scophony
- C. Unscanned types (in which the modulator is a lightsensitive element such as a photochromic plate).

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It is proposed that the "final report" summarize each of the systems in terms of its:

- Bandwidth (spatial and temporal frequency) 1. limitations
- Illumination (intensity and color temperature) 2. properties
- 3. Power requirements
- Complexity
- Compatibility with mechanical-optical systems of projection viewers
- 6. Anticipated state-of-the-art

The proposed information is derived for	rom discussions with STAT			
	These personnel have been enSTAT			
gaged in research and development of larly qualified to conduct an investigation viewers.	light modulators. They are particu-			
It is, therefore, proposed that the retical and experimental investigation ulated-light techniques to rear project presenting no more than a 3-man-month livery of a "final report" to by 2	conduct a theo-STAT of the feasibility of applying mod- stion viewing. This sub-study, re- effort, would conclude with the de- STAT			
In addition, the report will include recommendations for further experimental and theoretical investigation in this area. Should any system (s) appear to be feasible in terms of the government's requirements, plans and costs for a feasibility demonstration (s) will also be outlined.				
Accordingly, prompt evaluation with subsequent approval or modification in writing to the outlined study is requested in order to maintain schedule on subject Task Order.				
	Very truly yours,			
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cc: Technical Representative