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	term in in	any manner to an unauthorized April 24, 1964 ohibited by law.	20/(
Gentlen	nen:		
	Reference:		25X
		Three Advanced Photointerpretation Light Tables	
request	. These light tables	on light tables in response to your proposal will represent an improvement over the tools interpretation personnel and emphasize the	
request present	These light tables ly employed by photon g factors:		
request present followin	. These light tables ly employed by photo g factors: Ease of viewing and Increased packaged	will represent an improvement over the tools ointerpretation personnel and emphasize the i use by a stylized human engineered package. I illumination and a light level control by high quality fluorescent lamp and high	
request present followin	. These light tables ly employed by photo g factors: Ease of viewing and Increased packaged utilizing a special if frequency excitation	will represent an improvement over the tools binterpretation personnel and emphasize the discount of use by a stylized human engineered package. I illumination and a light level control by high quality fluorescent lamp and high n.	
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request present followin 1) 2)	These light tables by employed by photon of factors: Ease of viewing and Increased packaged utilizing a special if frequency excitation. Elimination of stropulse duration mod. A simple but rugge.	will represent an improvement over the tools binterpretation personnel and emphasize the duse by a stylized human engineered package. I illumination and a light level control by high quality fluorescent lamp and high n. boscopic or flicker effect by high frequency ulation.	

- 7) Elimination of film scratching by clamping the film against the table only when not in motion, the film being transferred directly from roll to roll when it is in motion.
- 8) Automatic masking of the light in the unused portion of the table to reduce eye strain.

 Declass Review by NIMA / DoD

Our proposal describes the design details of the following light tables

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MARTHA

GROUP : T

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20/(1/(S.C., Sections 793 and or the revelation	
			- 2 -			nanner to an unauth	
				_		•	
	which have been them with our		item number	r to make	it easy to as	lociate	
	Item I	An advanced I An advanced F	ilt Top Ligh	t Table	hle with a Tr	anslating	
	Item II	Microscope Ca	arriage				
•	Item III	An advanced F Microscope C	ilm Viewing arriage and	Ligh Inte	nsity Trackin	g Light	*
		Sources			÷		
	A cost analysi	s breakdown is d above, as a c	attached wh	ich consi	ders the Item	s I, II, as a	
	and itt outriner	dent design pro	oblem. You	have req	uested two co	ets;	
	those for the f	easibility study	and those f	or an ope	rational prote	type.	
	It is our opini	on that the spec	cifications or	utlined in	your technica	ıl exhibit	
	are entirely f	easible. Thus,	, our costs a	tre for th	e engineering	design	
	and fabrication	n of an operation	onal prototyp	on of each	light table.	The cost	
	for fabricating	additional tab	les or a larg	te draum	y or me table:	hecause	
	the design is o	es include the	engineering	labor.	mose brovene		
	The proposed	light tables wil	ll be deliver	ed over a	seven month	s period.	
	Item I will be	delivered at th	e end of five	months;	Item II at the	end of	
	six months; as	nd Item III at th	se end of sev	en monto	s. As an inc	spendent he	
	design problem	m, any one of t	Mem could b	a subbute	Q 10 1170 mo		
25X1D		13 years of exp		leveloping	*		
25X1A	and electro-o	ptical equipmen	nts	ation and	has an activ		
	pretation section, performing data collection and evaluation studies. Thus, we believe we are particularly well qualified to comprehend and						
	anius, we bear	lems associate	ed with the p	roposed	dvanced film	viewing	
	equipments.	A few biograph	ical sketche	s repres	entative of per	rsonnel	
	presently avai	lable to accom	plish this we	ork are a	ttached. Exa	ct assign-	
	ments, howev	er, are conting	gent on the c	ontracts	received duri	ng this	
	proposal eval	nation period.		_			
25X1A	We believe yo	u will find the	personnel er	nployed		are	
	particularly w	vell qualified to	conduct the	propose	d program.	The varied	
	education and	experience of and industria	our statt of (engineer:	i, paotointerp { } nermit u=	revers, to produce	
	an equipment	that will be far	saberior co	ontempor	ary tables.	THE PRESENTE OF THE PROPERTY O	
	Our intense in	nterest in the f	ield of impro	oved equi	pment for inte	rpretation	
	personnel can	be best illustr	rated by the	company	sponsored pr	ogram for a	

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	portable light table. This unit, illustrated in the attached brodesigned to solve the requirement for a simple lightweight int kit for field operations.	chure, was erpretation
25X1A	We will be happy to discuss this proposal further with you at and suggest you contact for technical discussions.	scrssion. The
25X1A	undersigned, who will act as negotiator to answer such financial or administrative questions as may a	will be happy rise. We may
25X1A	be reached by calling	
-	Very truly your	* ,
25X1A		

JFK:im
EnclosuresTechnical Proposal, 2 cys, CONFIDENTIAL
Cost Quotation, 2 cys
Brochures, 2 cys

This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C., Sections 793 and 794. The transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

Assistant Secretary

Next 5 Page(s) In Document Exempt

HIGH INTENSITY CONDENSER LIGHT SOURCE

General and Electrical

This specification covers	the design and development of two
High Intensity Condenser Type I	ight Sources to be used in conjunction
with the	Advanced Light Table. The sources
will operate from 110v 60 cycle	power and draw no more than 150 .
watts. Should power conversion	equipment be required, this will be
furnished by the vendor. A pote	ntiometer will be furnished with each
source by the vendor.	

Mechanical Packaging

Each unit will be package	d by the vendor in a housing similar to
that shown in Sketch	No dimension will exceed that shown on
the sketch. Provision will be	made in the optical housing to allow for
ventilation. The housing skin t	emperature shall not exceed 100°F above
70°F ambient over a 30-minute	period of operation.

Intensity Range

At full intensity the high intensity light source must provide adequate illumination of a film area of 2.5mm with an average density of 2.0 units as viewed through the optical system of the stereoscope microscope (with rhomboids) operating at a magnification of 100X. The required 40mm diameter spot will be equally well illuminated over its entire area. The sources shall operate at a color temperature between 3,500° and 5,500°K.

Variability and Intensity

Means shall be provided for continuously varying illumination from 50% to 100% at full intensity on each light source. Such reduction shall not reduce the Kelvin temperature below 3, 500°K.

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Heat

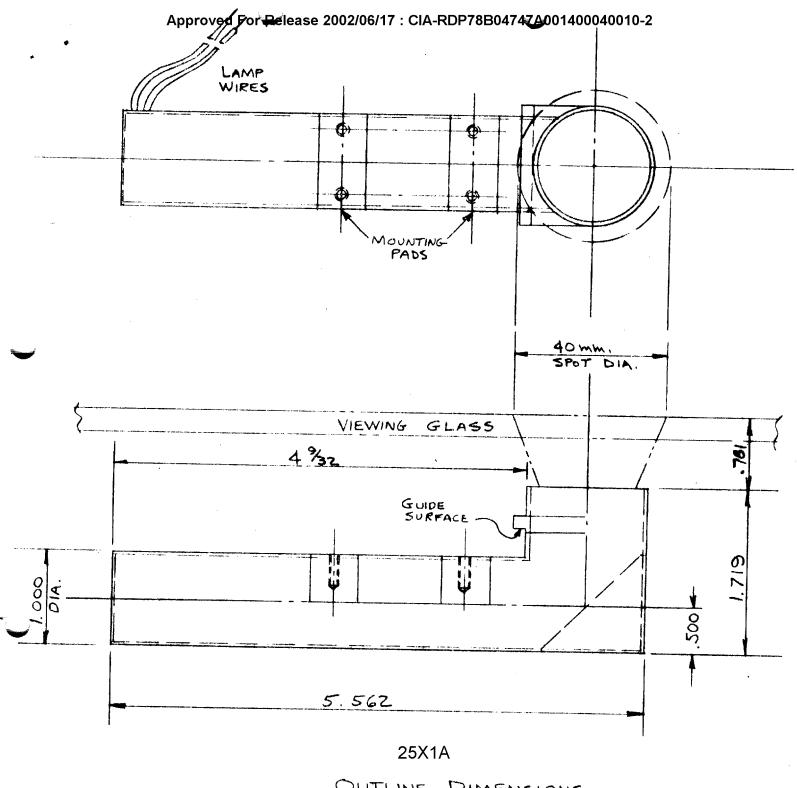
With film at 2.0 density placed on the top surface of the viewing glass, as shown on Drawing 78711-35, the temperature of the film shall not exceed 100°F above 70°F ambient after being stationary for 30 minutes in the high intensity light path under maximum illumination.

Acceptance

Acceptance tes	ts based on these requir	ements will be made by
personn	el at the vendor's plant.	All test equipment will be
furnished by the vend	ior. Should a	Stereoscope be required,
this unit will be furn	ished	

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OUTLINE DIMENSIONS-HIGH INTENSITY LIGHT SOURCE.