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SYMBOLS CLASS OF SERVICE Letter. 20003-4 Letter 2002/08/28 A0012000 This is a first message unions its deferred char-LT=International SF-1201 (4-60) EGRAM actor is indicated by the per symbol. W. P. MARCHALL Thill at point of ot gin. Time of receiper's LOCAL TIME at point of destination The filing time shown in the date line on domestic telegrams is LOC/ 1965 FEB 25 PM 5 LLH229 0B192 STATINTL 31 0 JDA344 NL PD JD STATINTL STATINTL STATINTL FNS ELEMENT #3 IS VWFR MACHINE QUARTZ STATINTL REFERENCE EACH DELIVERY EACH AND QUART Z LENS ELEMENT #4 IS STATINTL WILL INSTALL IN LAMPHOUSE IF CUSTOMER IS 120 DAYS ARO. STATINTL INSTALLATION AND ALIGNMENT SHOULD NOT SENDS LAMPHOUSE TO STATINTL TAKE OVER TWO DAYS AT STATINTL STATINTL STATINTL fri 18 (100 No. 165

25 February 1965

STATINTL	Reference: VWFR Machine
	Gentlemen:
STATINTL STATINTL	Your technical people have requested a price and avail- ability of lens element #3 and #4 manufactured from quartz material. Quartz lens element #3 iseach; quartz lens element #4 iseach. Delivery is 120 days ARO and the price quoted is f.o.b. delivered East Coast; terms net 30 days.
STATINTL	In the event an order for the above material would be issued would at no additional charge install and align these lenses in the present lamphouse if the lamphouse
STATINTL	were forwarded to
	We thank you for the opportunity of quoting on your requirements.
	Very truly yours,
STATINTL	
STATINTL	BCJ:lhf Business Manager
:	
STATINTL	bcc: I.N. File 686

25X1A

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NPIC/D-7-65

997053

				22 JAN 1965
	MEMORANDUM FOR	Assistant Depu	ty Director for	Intelligence
	SUBJECT	Obligation of and Developm		Overrun on Research
	REFERENCE	DDCI Memorandu Approval of	n ER 63-88121, c Research and Dev	lated 23 December 1963: Pelopment Activities
-				
25X1A	i. In com obligate funds in Annex "A" i	in the amount of	g <u>raph 5b</u> of the to fina	reference, approval to unce the overrun described
25X1A	2. The co	ntract in questio	n was let in Ju	ne 1963 with the
25X1A				and
25X1A	on a CPFF basi	in the ascent of a	f	able width Film Keader
	3. The ov had to be solv meet our requi	nd in order to pr	d as a result or oduce a piece or	f design problems which f equipment which would
25X1A				
-				
				UR C. LINDAHL
		H.		Director phic Interpretation Center
	Enclosure: Annex "A"			
25X1A				25 JAN 1965
	APPROVED:			20 JAN 1900
	- I-	PAUL A. I at Deputy Directo		Date nce
	1 - 1 -	NPIC/AS/LB Director, NPIC A/DDI NPIC/PEDS/DB		
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RESEARCH AND DEVELOPMENT PROJECT APPROVAL REQUEST

25X1A I. Identification

25X1A

The Plans and Development Staff, NPIC, under Contract is having designed and built by a prototype variable Width Film Reader. This instrument is scheduled for delivery

25X1A Width Film Reader. This instrument is scheduled for delivery and installation in late December 1964, and incorporates the liquid film gate approach to the film cooling problem.

II. Background

The Reader as being designed and built by 25X1A includes a liquid film gate approach to the film neat ing problem created by the intense illumination required at high 25X1A magnifications. It was understood by at the time of contract-25X1A ing for the Reader that sufficient information was available through on liquid film gates a previous contract with the 25X1A to permit them to accomplish the gate design with a minimum of effort. work, it was determined that an On evaluation of the 25X1A insufficient amount of information was available and the would 25X1A have to conduct their own breadboard design phase.

> Additional problem areas not anticipated in the initial proposal occurred in the following technical areas: 1) due to the complexity of the liquid gate it was necessary to design a relay condenser system; 2) the capstan design system originally proposed did not work satisfactorily and a different capstan system had to be designed; 3) a refrigeration cooling system was originally proposed but this was later changed to a water cooled system after many of the components had been purchased and considerable design effort was expended; 4) after fabrication of the machine an excessive amount of vibration was present in the projected image and the cabinet had to be stiffened to eliminate the vibration; and 5) an azmuth indicator, which was not in the original proposal, was required to increase the versatility of the equipment.

III. Contract and Financial Arrangements

25X1A	The original contract with
25X1A	Variable Width Film Reader was for on a CPFF basis. The
25X1A	requested overrun, including G & A and overhead is for The which will increase the total adjusted cost to The will increase the total adjusted cost to The will increase the total adjusted cost to The will be total adjusted cos
25X1A	recommended action consists of increasing the funds available under
25X1A	the contract to a ceiling of to satisfactorily complete the instrument.

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IV. Coordination

	This additional impending contractual	action has been coordinated
25X1A	the order of the ord	It is scheduled for
	presentation to the TDC on 10 December 1904	. No further coordination
	of this project is deemed appropriate.	

25X1A

NPIC/D-8-65 14 January 1965

25X1A SUBJECT: Overrun on Contract for Variable Width Film Reader

I have been presented with the TDC Minutes of 1. 10 December 1964 and asked to approve an overrun of some 25X1A on a base contract of after the contract had been completed and, indeed, the instrument prepared for 25X1A delivery to the building. In turn, I am to justify this to the Director, NPIC and the Deputy Director (Intelligence) and ask them to approve it. I understand that a variety of problems arose during the performance of this contract, important among which was the lack of detailed information on the liquid gate which presumably was to be furnished by the ______ I note further that as far back as 25X1A April your monitor was aware of and noted in his inspection report the fact that this contract might overrun by 10%. No action was taken at that time to refer the matter to TDC or to me. Again in October it was noted in an inspection report that this contract would overrun, this time the estimate having been raised to Once again no estimate having been raised to Once again no action was taken. Now, when it is too late to take any 25X1A action other than approve what in fact is a "fait accompli" I am forced to sign off and justify an overrun of better 25X1A than

> 2. An everrun of this magnitude should have been brought to the attention of the TDC when first discovered by your contract monitor. There is no point in having a Committee meet and deliberate on projects, for me and the Director to review and validate them, and then have the DD/I and, indeed, the DDCI sign off on them only to have overruns later develop which are not called to the attention of approving authorities until any action other than approval



25X1A SUBJECT: Overrun on for Variable Width Film Reader

is too late. At the best I call this careless work - at the worst gross neglect for which I hold you and the seniors immediately under you in charge of this program fully responsible. I do not expect to see a recurrence of this type of problem again.

25X1A

Executive Director, NPIC

25 January 1965

MEMORANDUM FOR THE RECORD

STATINTL SUBJECT: Overrun on Contract

- STATINTL 1. To better understand the problems behind the Veriable Width Film Reeder the following summary of events has been prepared.
- STATINTL 2. When the proposal for the reader was **NEE**X requested was given the understanding that information on the liquid film gate would be made available to them if they were awarded the contract. STATINTL After being awarded the contract sent personnel to the
- STATINTL in to determine the extent of the information available STATINTL in to them on the liquid gate and the light source which was associated evaluating with it at that time. After/archesting this information, it was determined that it was of little help to them and that they would essentially have to start from scratch in both the liquid gate and light source problems. This involved research and design effort in excess of what enticipated. However, they chose at iki that time not to request increased funds i because they felt they could not determine valid pricing information at that time.
- 3. From approximately August 1963 to about February 1964 design preceded on the XMMX reader at a slower than usual rate because of the extra work required on the liquid gate and light source. By April 1964 STATINTL it was apparent that would not complete the task within allocated funds, and it was so stated in the 29 April 1964 Statix Contract Inspection STATINTL Report. At this time estimated they x could complete the project for an additional 10% over the contrac t price of and did not Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4 plan to ask for a overrun at that time and therefor did not notify the

Contracting Officer. As the work progressed, it became apparent that to complete the a job would require more funds then they originally estimated. At this time I requested that if an overrun was to be requested that they take careful consideration of the funds required to complete the job so that multiple overruns could be avoided. It was also pointed out to them and they fully understood the consequences, that I had no authority to commit funds for the Government, and any money they spent over the allocated funds was at their own risk.

4. It should be noted that all Contract Status Reports from April 1964 through the present, indicated that they would not remain within allocated funds, and that the Contracting Officer never contacted them as to their financial status as a result of these reports. By STATINTL September it was obvious to me that an overrun of approximately was enticipated and it was reported as such on the 1 October 1964 report. STATINTL During my September inspection visit, I informed again that they were spending funds without authorization and requested that they take insetiskax immediate action to correct the situation.

5. On the 29th of October, they finally submitted a request for STATINTL They did not send overrun to the contracting officer at a copy directly to me but I was verbally informed of this action STATINTL upon receipt of the information by their local representative STATINTL and was the copy sent copy which was hand=cerried to me by for his information. STATINTL to

I have yet to see a copy of the overrun request come to NPIC 6. through official channels. To the best of my knowledge all copies STATINTL available in the NPIC to date are copies of the Internal corres-

	IX 7. After waiting several weeks for the request to come through	
STATINTL	channels, I checked back to	
01711112	and they understood that I had received the information through the	
	local representative and therefore did not bother to foreward a copy.	,
	At that time I then began to prepare the ix overrun for TDC action.	
	This action was then taken up and approved by the TDC on 10 December	
STATINTL	1964 (approximately six xx weeks after the request was made by	
	8. To date, I have not been questioned by anyone outside the	
	PARSX Plans and Development Staff concerning the progression of this	
STĂTINTL	contract except for a couple of informal telephone questions by	
STATINTL	The reader was delivered to the NPIC on 28 December and 1s	
	presently being drivingex debugged.	

STATINTL

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 $\langle \cdot, \cdot \rangle$, \cdot , \cdot

23 September 1963

MEMORANDU	M FOR: Assistant f	or Administration	
ATTENTION	:		
SUBJECT	: Concurrence		Request
	Ior Sub-Con	tract Authorization	
		has requested	euthorization to enter int
a sub-cor	trect with		on Contract
This pror	osed sub-contract 1	s in concurrence vi	th technical discussions
			and is considered necessary
to achiev	e the best possible	design. The propo	sed price of
represent	s less than of t	he total contract p	rice and represents the onl
anticipat	ed sub-contract.		
		0	igned
·		Developm	ent Brench, P&DS
Distribut Orig &	ion: 1 - Addressee		
	2 - FEDS/DB		·

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STATINTL

STATINTL

Approved For Release 2002/08/28 . CrA-RDP78B04747A001200020003-4

18 September 1963

Attention: Contracting Officer

Reference: Contract

Gentlemen:

Pursuant to Article 13, Paragraph B, of the Terms and Conditions applicable to the above contract, it is required for performance of this contract that _______ enter into a _______ STATINTL sub-contract with the _______ The sub-contract will cover the work described in the attached "Statement of Work." This work does involve to a degree the elements of experimental, development, or research work. Their offer to accomplish this work is on a firm fixed price of _______ This price is considered fair and reasonable compared to past similar type of work.

Your concurrence with our action is requested.

$\sim 1_{10}$	Very truly yours,	STATINIL
BCJ:lhf	Business Manager	STATINTL
Enclosure		an an airtean 🖗
cc:		STATINTL

STATINTL WORK STATEMENT FOR

STATINTL i. In accordance with prewing E326, provide:

- a. Specifications for all lenses (complete information sufficient to define each lens for purchase).
- b. Two or more recommended sources of supply for each lens.
- c. A definition. verbal and/or graphic as required, of any unusual lens mounting requirements.
- d. An optical schematic of the entire illumination and projection system covering all magnifications and film sizes be employed.
- A lamp specification, verbal and/or graphic, in such detail as required for purchase.
- Source of supply recommended for the lamp and an alternate source with information as to the performance penalty for using the alternate.
- g. A statement as to whether a corrector will be needed in the optical path to compensate for the film platen glass.
- h. Design of a corrector, if needed, to be finished by 1 December 1963 based upon receipt of (g.) above by 1 November 1963.
- i. Pechan prism error analysis giving the amount of blur occuring at the screen due to the use of Pechan Prisms for image rotation. Due Monday, 23 September, and to be expressed in terms of blur in fractions of an inch versus surface flatness of the Pechan prism in wavelengths of any specified monochromatic light.
- j. Recommended screen material and alternate to provide picture color compatible with ease of viewing, sharpness of image and customer's expressed wish for a blue image.
- Recommended source of supply for screen and alternate including specifications for purchase.
- Periodic meetings will be arranged for the exchange of information. The first
 of such meetings will be discussed by phone 20 September. At that time
 Pechan error date and decisions regarding projection lamps will be discussed.

STATINTL	Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003 4
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STATINTL	
	29 October 1964
· · •	
	Gaute at ing Officer
	Attention: Contracting Officer
STATINTL	Reference: Contract
	Gentlemen:
	the contractor has recently com-
•	In reference to the above subject contract, the contractor has been will pleted the estimates for cost at completion on the above contract and will require funds in addition to those presently committed under the contract.
STATINTL	and a state of the required to
	The contractor estimates that an additional will be toget to be a set of the performance within the scope of work included in this contract. Cost breakdown in substantiation of this amount is forwarded herewith as Enclosure 1.
	the several the noted that there are several
•	In reviewing the cost at completion, it should be noted that there are major factors contributing to this requirement for additional funds. The most outstanding of these is the cost of the liquid gate system.
,	E
STATINTL	The basic proposal by assumed transfer of extensive design information from a corporation which had done earlier work on a liquid gate. It had been assumed a corporation which had been tested by the other corporation, would require only
STATINTL	that the gate, which had been tested by the the the system being made by
	In actual fact, there were no usual and internated to consisted simply of a
STATINTL	could have been of any use. The guide demonstration of performance
	consisted only of suspending a process of this intensity lamp. There was no pro-
	transparent sides and munimating it with and standy or for drying.
STATINTL	Those problems had to solve in the designmental gate. The problems
	scope of work, had to build a separate emperature control and the capstan drive
	associated with film motion, fleon flow, competent machine design. had to be solved before proceeding with the final machine design.
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29 October 1964

Associated with the gate and related mechanical systems are well over 100 detailed drawings and sketches. Those were necessary in order to produce the parts for the experiment. For the final machine further engineering and drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to Arafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to drafting was required in order to adapt the experimental equipment, used to adapt the first of the gates at to a functioning piece of operational hardware. Merely the production of that many drawings can be seen as a major actor in the difference between the work had anticipated performing and that which we actually had to perform.

The second area on which a considerable amount of time was spent was the illumination optics. Originally, we felt that the requirement for producing high illumination levels on the screen would be relatively easy to attain with a conventional optical design, and our proposal reflected this point of view. However, as the machine began to take shape mechanically, and since a design objective was to minimize floor space, we found that the optical design had become severely complicated. The original concept of the machine as proposed assumed a greater amount of space available within the machine structure for placement of the lamp. Final selection of a lamp and design of a lamp house resulted in a structure which was too large to incorporate within the body of the machine. That required shifting the lamp a considerable distance from its optimum position, resulting in the need for an optical relay system. The need for that type of design became apparent after the optical design had been under way for some time. This, in turn, reflected back into the mechanical design which also had been under way for some time. The result was costly insofar as anticipated time and labor hours were concerned because a significant amount of the mechanical design had to be altered, and due to changes in the optical design, this occurred at least twice. The final system provided an image of the arc at a point intermediate on the optical axis between the lamp and the film gate. In order to do this a number of lenses were required and their insertion into, and removal from the optical path was accomplished only with considerable complication of the electronics which controlled lens changes. Of course, the mechanism required to actuate the several turrets containing the change lenses was quite complicated and demanded space where heretofore there had been no need for space. This, in turn, forced re-location of other components of the system including a winding drum for hoses and cables

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29 October 1964

and thus a chain of changes was introduced which had a substantial effect on schedules and cost.

As a part of the freen cooling system, we originally designed a liquid-to-air heat exchanger since the required film temperature had to be kept about equal to room temperature. For the freon to cool it, the freon then had to be reduced below room temperature to guarantee that the heat would flow from the film to the freon. The only possible way of maintaining freon inlet temperature below ambient involved using a refrigerating system. Our initial design, therefore, employed a refrigeration system and our design work made room for this system within the body of the equipment. That absorbed considerable time and effort. Subsequently, it was determined that the refrigeration system could be placed externally in a separate utilities package. Because of crowding within the machine body resulting in the need for an optical relay system which accurred well into the design, the removal of the refrigerating system to an outilide utilities package was most welcome. Nevertheless, the change did consume time and did therefore cost additional money. At a still later stage in the design, cooled water was made available at the installation site. Since that made possible the elimination of the refrigerating system and a simplification both as regards the number of packages which constituted the machine as well as in the fluid circuitry, that was the final concept adopted. It is apparent, therefore, that in achieving the design goals for the equipment, the pertinent ones were compactness, reliability and minimum complexity. To achieve these we were forced to go through what amounted to three separate approaches to a single problem.

In the area of the capstan, our original design employed a differential liquid pressure capstan. That capstan was designed and built to be incorporated in the experimental model prior to its adaptation for the final machine. Since measurement of distance along the length of the film was to be accomplished by counting the number of revolutions of that capstan felt that capstan design was basic to machine performance. We also felt that any design technique that could be used should be employed to guarantee minimum likelihood of slippage between capstan and film. Therefore, since the use of a capstan having holes in it, and employing a reduced internal pressure to assist in

STATINTL

29 October 1964

clamping the film tightly to its periphery has been a common practice in applications having similar requirements, such a design was tried first. Several variants on that design were tested, but none of these performed as satisfactorily as, or was as simple and inexpensive as a plain rubber covered design. The problem has now been solved by the use of a rubber covered capstan, but the trial models of differential pressure capstans consumed significant amounts of time and were not considered in our original cost estimate.

During fabrication of the equipment, it developed that the structure had inherent instabilities which led to image motion on the screen whenever the machine frame was lightly touched or whenever there was source of vibration nearby. Correction of this required the addition of heavy stiffening members to the frame and consumed substantial manufacturing time.

The illumination system for 48X magnification is designed to reduce the size of the light spot incident upon the film so as to illuminate only that, area which is seen by the 48X lens. Thus, all of the light from the lamp is directed through that area and thence to the screen. The advantage of that lies in being able to maintain the highest practical illumination level on the screen as well as in maintaining good design practice. The disadvantage is a serious one: The concentrated light means also that the heat incident on the film also is concentrated. Removal of that heat therefore requires a considerably more sophisticated approach to cooling than at the bottom range of magnification. Although the optical system incorporates filtration of infra-red and ultra violet ends of the spectrum prior to the light reaching the film, some concern was felt over the efficiency of filters and several attempts have been made to optimize the absorption of heat prior to the film. These attempts have been over and above the criteria for the original optical design and thus cost has been increased beyond what was expected.

At 48X and 24X it is apparent from experiment that the image on the screen is distorted significantly due to the piece of glass in the film gate between the film and the projection lens. In order to display an accurate image on the screen, it has been necessary to design compensating lenses for both

29 October 1964

magnifications. The design of these lenses and the mounting design as well as the installation was not anticipated in the original bid.

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During operation of the system after it had been assembled, and while it was being tested, the optical system was thoroughly adjusted to optimize it. The system logged many hours of operation with no casualties. However, for an undetermined reason, after a considerable operating time one lens in the lamp house cracked. It had not been mishandled. Cracking may have been caused by an unusual combination of operating conditions. Replacement of that lens is necessary before the machine will function satisfactorily. This was not accounted for in the original bid.

After observing operation of the machine during testing, it became apparent that several refinements were necessary. A light shield was required around the rear of the machine to reduce light spillage as much as possible. The release of freon vapor from the tank containing the supply reel when reels were changed is objectionable. Therefore, a ventilating system had to be added above the tank which could be brought into operation the moment the tank was opened. Manufacture and installation of these devices was not considered in the original bid.

Finally, during operation of the equipment in test it was found that residual material frequently left on the surface of the film from normal processing operations was dissolved by the freon. As the film was reeled back onto the supply spool preparatory to removing it from the machine, droplets of freon would adhere to the film and in drying, leave a detectable residue. To avoid this it was decided to incorporate air jets in the tank holding the supply reel to strip off any freon from the surface of the film. This became a requirement after design and fabrication of the entire system had been completed, and therefore constituted a reason for the expenditure of additional funds.

Indications of this requirement for additional funds were anticipated earlier. However, due to the complex nature of the equipment it has been only recently that we have been able to provide a firm estimate of the cost, to complete. It is requested that the appropriate contractual amendment be issued under the subject contract to provide for an adjusted total cost of ______ and a STATINTL fixed fee of ______ resulting in a total of _______

STATINTL The new delivery date at your facility is December 15, 1964.

5 -

29 October 1964

STATINTL In the event additional information is required, please contac Very truly yours, STATINTL STATINTL STATINTL STATINTL STATINTL

Enclosure 1 - Cost Breakdown



Next 3 Page(s) In Document Exempt

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The Contractor shall provide the necessary facilities, services and metarial to produce and deliver a Variable Width Film Reader in accordance with the "Design Ecquirements For a Variable Width Film Reader" which were provided by the Covernment and the Contractor's Technical Proposal I.N. 662 Revision & dated 5 April 1963.

The "Design Requirements" and technical proposal are incorporated herein by reference and mode a part bareof.

DELIVERABLE TIDES

MAM

- 1. Variable Width Film Reader delivered and installed at Washington, B.C. (Consignes Address to be provided at later date)
- 2. Operational, maintenance and spare parts samel
- 3. PERT Charts and technical progress report to Berfurnished monthly
 - (a) Three (3) copies to Sponsor's Technical Representative
 - (b) One (1) copy to Contracting Officer
- 4. Engineering Dramings and Specifications

GOVERNMENT PURSUED KOULINGETT

A Digital Accomplater will be sent to the Contractor as Government Perpished Equipment to be incorporated in and item.

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NARRATIVE REPORT

Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4

All deliverable items required under this contract have been received and accepted. The equipment is not fully operational as yet due to broken condenser elements which have been ordered separately and are not covered by the contract.





6 November 1964

- 2. As you remember, on 48X resolution was very poor in the corners. By bench tests we confirmed that the lens was not functioning well off axis, so we obtained a new lens, a 50 mm at f 2.0. STATINTL Bench tests show that its resolution 15 inches off axis is better than 300 lines per millimeter. However, it does fall off into the corners of the screen area. This was resolution of the lens itself on the bench without a screen.'
- 3. We are enclosing a set of figures for light distribution taken before final alignment. You will notice a general offset to one side--that is, the light is more intense at the right of the screen, and somewhat greater at the bottom than at the top, for all magnifications. This asymmetry will be corrected when the lamphouse is aligned finally.
- 4. Frame Stiffening. The picture is greatly improved since the frame was stiffened although there is still some jiggle apparent on 48X when the machine is banged heavily.
- 5. Replacement for element 3, which is the cracked element in the lamphouse, is due in the house in two weeks, that is 16 November.

6 November 1964

- 6. In order to prevent further cracking of lenses in the lamphouse, passages for air cooling have been drilled. The lamphouse blower will help to keep air moving between the lenses.
- 7. The fine focus mechanism has been reworked to provide both longer travel and faster travel. The new focus adjustment seems to have a good feel.
- 8. The joystick speed control has been changed so that image motion at all four magnifications has approximately the same range. The maximum speed in any range of magnification can be changed by the simple expedient of changing one resistor on a board under the control console. Thus adjustment can be made for individual preference.
- 9. The detent on the scan joystick has been improved, and it is now very positive.
- 10. To dry the film, two air nozzles were installed in the low pressure housing on each side of the film, just after the subtraction rollers.
- 11. In conjunction with the air nozzle for film drying we have built a hood for exhausting Freon vapor during the drying process. The hood is supported on a swinging arm, attached to the frame, so that it is convenient to use.
- 12. The gasket on the low pressure lid has been replaced with the same material that had been used on the high pressure side.
 - 13. We are also enclosing resolution tests we made, comparing a target in Freon (with 0.5 inches of glass platen) with a target set on top of the platen. This indicates the effects of the platen glass.
 - 14. Corrector lenses for 24X and 48X are ordered, and should be here about 16 November 1964.

Very truly yours,	_
	STATINTL
6 Querettong	
Director of Operations	

HEAT FILTER OUT - WATER CELL AND COLD MIRROR IN

LIGHT LEVEL - LAMP SIDE

FOOT-CANDLES

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1.04 density	51	78	76
145 amp	60	66	63
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12X	. 40	46	44
1.04 density	48	61	57
145 amp	39	53	50
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STATINTL	
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• ; ;	29 October 1964
	Attention: Contracting Officer
STATINTL	Reference: Contract
\mathbf{U}	Gentlemen:
	In reference to the above subject contract, the contractor has recently com- pleted the estimates for cost at completion on the above contract and will require funds in addition to those presently committed under the contract.
STATINTL	The contractor estimates that an additional will be required to complete the performance within the scope of work included in this contract. Cost breakdown in substantiation of this amount is forwarded herewith as Enclosure 1.
-	In reviewing the cost at completion, it should be noted that there are several major factors contributing to this requirement for additional funds. The most outstanding of these is the cost of the liquid gate system.
STATINTL	The basic proposal by assumed transfer of extensive design information from a corporation which had uone earlier work on a liquid gate. It had been assumed that the gate, which had been tested by the other corporation, would require only adaptive changes to the design in order to fit it to the system being made by
STATINTL	In actual fact, there were no detail drawings or assembly drawings available which could have been of any use. The gate demonstrated to ponsisted simply of a
STATINTL	fixed metal frame having two transparent sides. The demonstration of performance consisted only of suspending a piece of film, stationary and vertical, between the transparent sides and illuminating it by a high intensity lamp. There was no pro-
STATINTL	vision in the gate for moving the film, for driving it with a capstan, or for drying. Those problems had to solve in the design of the equipment. To perform to the scope of work, had to build a separate experimental gate. The problems associated with motion, freon flow, temperature control and the capstan drive had to be solved before proceeding with the final machine design.
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Associated with the gate and related mechanical systems are well over 100 detailed drawings and sketches. Those were necessary in order to produce the parts for the experiment. For the final machine further engineering and drafting was required in order to adapt the experimental equipment, used to demonstrate the first of the gates at to a functioning piece of operational hardware. Merely the production of that many drawings can be seen as a major factor in the difference between the work had anticipated performing and that which we actually had to perform.

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The second area on which a considerable amount of time was spent was the illumination optics. Originally, we felt that the requirement for producing high illumination levels on the screen would be relatively easy to attain with a conventional optical design, and our proposal reflected this point of view. However, as the machine began to take shape mechanically, and since a design objective was to minimize floor space, we found that the optical lesign had become severely complicated. The original concept of the machine as proposed assumed a greater amount of space available within the machine structure for placement of the lamp. Final selection of a lamp and design of a lamp house resulted in a structure which was too large to incorporate within the body of the machine. That required shifting the lamp a considerable distance from its optimum position, resulting in the need for an optical relay system. The heed for that type of design became apparent after the optical design had been under way for some time. This, in turn, reflected back into the mechanical design which also had been under way for some time. The result was costly insofar as anticipated time and labor hours were concerned because a significant amount of the mechanical design had to be altered, and due to changes in the optical design, this occurred at least twice. The final system provided an image ϕf the arc at a point intermediate on the optical axis between the lamp and the film gate. In order to do this a number of lenses were required and their insertion into, and removal from the optical path was accomplished only with considerable complication of the electronics which controlled lens changes. Of course, the mechanism required to actuate the several turrets containing the change lenses was quite complicated and demanded space where heretofore there had been no need for space. This, in turn, forced re-location of other components of the system including a winding drum for hoses and cables
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and thus a chain of changes was introduced which had a substantial effect on schedules and cost.

As a part of the freon cooling system, we originally designed a liquid-to-air heat exchanger since the required film temperature had to be kept about equal to room temperature. For the freon to cool it, the freon then had to be reduced below room temperature to guarantee that the heat would flow from the film to the freon. The only possible way of maintaining freon inlet temperature below ambient involved using a refrigerating system. Our initial design, therefore, employed a refrigeration system and our design work made room for this system within the body of the equipment. That absorbed considerable time and effort. Subsequently, it was determined that the refrigeration system could be placed externally in a separate utilities package. Because of crowding within the machine body resulting in the need for an optical relay system which occurred well into the design, the removal of the refrigerating system to an outside utilities package was most welcome. Nevertheless, the change did consume time and did therefore cost additional money. At a still later stage in the design, cooled water was made available at the installation site. Since that made possible the elimination of the refrigerating system and a simplification both as regards the number of packages which constituted the machine as well as in the fluid circuitry, that was the final concept adopted. It is apparent, therefore, that in achieving the design goals for the equipment, the pertinent ones were compactness, reliability and minimum complexity. To achieve these we were forced to go through what amounted to three separate approaches to a single roblem.

In the area of the capstan, our original design employed a differential liquid pressure capstan. That capstan was designed and built to be incorporated in the experimental model prior to its adaptation for the final machine. Since measurement of distance along the length of the film was to be accomplished by counting the number of revolutions of that capstan felt that capstan design was basic to machine performance. We also felt that any design technique that could be used should be employed to guarantee minimum likelihood of slippage between capstan and film. Therefore, since the use of a capstan having holes in it, and employing a reduced internal pressure to assist in

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clamping the film tightly to its periphery has been a common practice in applications having similar requirements, such a design was tried first. Several variants on that design were tested, but none of these performed as satisfactorily as, or was as simple and inexpensive as a plain rubber covered design. The problem has now been solved by the use of a rubber covered capstan, but the trial models of differential pressure capstans consumed significant amounts of time and were not considered in our original cost estimate.

During fabrication of the equipment, it developed that the structure had inherent instabilities which led to image motion on the screen whenever the machine frame was lightly touched or whenever there was source of vibration nearby. Correction of this required the addition of heavy stiffening members to the frame and consumed substantial manufacturing time.

The Illumination system for 48X magnification is designed to reduce the size of the light spot incident upon the film so as to illuminate only that area which is seen by the 48X lens. Thus, all of the light from the lamp is directed through that area and thence to the screen. The advantage of that lies in being able to maintain the highest practical illumination level on the screen as well as in maintaining good design practice. The disadvantage is a serious one: The concentrated light means also that the heat incident on the film also is concentrated. Removal of that heat therefore requires a considerably more sophisticated approach to cooling than at the bottom range of magnification. Although the optical system incorporate filtration of infra-red and ultra violet ends of the spectrum prior to the ligh reaching the film, some concern was felt over the efficiency of filters and several attempts have been made to optimize the absorption of heat prior to the film. These attempts have been over and above the criteria for the original optical design and thus cost has been increased beyond what was expected.

At 48X and 24X it is apparent from experiment that the image on the screen is distorted significantly due to the piece of glass in the film gate between the film and the projection lens. In order to display an accurate image on the screen, it has been necessary to design compensating lenses for both

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magnifications. The design of these lenses and the mounting design as well as the installation was not anticipated in the original bid.

During operation of the system after it had been assembled, and while it was being tested, the optical system was thoroughly adjusted to optimize it. The system logged many hours of operation with no casualties. However, for an undetermined reason, after a considerable operating time one lens in the lamp house cracked. It had not been mishandled. Cracking may have been caused by an unusual combination of operating conditions. Replacement of that lens is necessary before the machine will function satisfactorily. This was not accounted for in the original bid.

After observing operation of the machine during testing, it became apparent that several refinements were necessary. A light shield was required around the rear of the machine to reduce light spillage as much as possible. The release of freon vapor from the tank containing the supply reel when reels were changed is objectionable. Therefore, a ventilating system had to be added above the tank which could be brought into operation the moment the tank was opened. Manufacture and installation of these devices was not considered in the original bid.

Finally, during operation of the equipment in test it was found that residual material frequently left on the surface of the film from normal processing operations was dissolved by the freon. As the film was reeled back onto the supply spool preparatory to removing it from the machine, droplets of freon would adhere to the film and in drying, leave a detectable residue. To avoid this it was decided to incorporate air jets in the tank holding the supply reel to strip off any freon from the surface of the film. This became a requirement after design and fabrication of the entire system had been completed, and therefore constituted a reason for the expenditure of additional funds.

Indications of this requirement for additional funds were anticipated earlier. However, due to the complex nature of the equipment it has been only recently that we have been able to provide a firm estimate of the cost to complete. It STATINTL is requested that the appropriate contractual amendment be issued under the subject contract to provide for an adjusted total cost of STATINTL fixed fee of resulting in a total of

STATINTL The new delivery date at your facility is December 15, 1964.

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29 October 1964

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In the event additional information is required, please contact

Very truly yours,

Business Manager

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Enclosure 1 - Cost Breakdown

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An inspection visit was made on the 17th and 18th of September 1964 to make a preliminary evaluation. A number of conditions existed which require additional work before the machine is acceptable. All but two of the deficiences were minor and are basicly a matter of adjustment or component replacement. The two major areas of concern are Vibration and Film drying/ venting. The vibration is due to poor structual rigidity and ______ is reinforcing the cabinet. At present, the freon is not being completely removed when the film is rewound at high speed, nor is their a toxic vent. _______ is investigating the best way to solve the freon dissipation problem from both the evaporation and venting aspects.

In addition they have already overrun the contract price and are preparing a report for the contracting office. It is estimated that the overrun will be approximately 25X1A

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Approved For Release 2002/08/28 : CIA-RDP78B047474001200020003-4

August 7, 1964

Dear John:

STATINTL

STATINTL In order to set forth the problems we have had with in an orderly manner, I asked on make a chronological summary of the events which took place during the life of that Purchase Order. I am appending that to this letter in outline form. However, let me preface it with these comments.

> We have no further objective evidence of their competence as a supplier other than what Dave has provided in his summary. We have included them on the list of bidders for several jobs and they have come in in every case the low bidder by a considerable margin. We cannot honestly claim that such low bidding is a symptom of incompetence. At its worst, all I can see is that they are hungry; possibly they bid low because of reduced costs. Certainly their administrative services have been reduced to practically nil. That latter argument is partially offset by their very large plant facility which, I would expect, coupled with their low direct labor input, would be reflected in a high overhead rate and therefore high costs.

STATINTL STATINTL STATINTL In summary, we are going to shy away from using them as a vendor in the future by reason of poor performance. The difficulty they appeared to have with lens #4 this last time around indicates little or no improvement over the past. Our experience with other vendors has so far been good, with ______ the best and with ______ adequate. ______ the other two.

	Following is Day	ve's ch	ronological summary:
STATINTL	2-6-64	Order j	placed with P.O. 6679.
STATINTL STATINTL	4-1-64	ex	ed delivery by pedited P.O. on the following dates: 4-6, 4-10, 4-14, 4-20, 4-22, 4-23, 4-27, 4-28 and 4-30.
	5-1-64	Receiv	ed last of lenses for condensing system.
STATINTL	W/E 5-4-64	Gross	here - observed results of optical checkout. discrepancies from predicted performance noted.
	W/E 5-11-64	Measu	red all lens curvatures. Discovered gross errors.
	W/E 5-18-64 W/E 5-25-64	checke	one conversation with They ed their test plates for tolerances. They started ng element #10.
STATINTL	5-26-64	They s	o measure ases there. Checked test plates where available. started procurement for blank for new element #4. sed delivery by 7-3-64.
STATINTL STATINTL			s of lens measurements at
STATINTL STATINTL		Г	Element #11 had radius of 46.3". Print called for 50.0". No test plate was found, although claimed they used one. Tool was found to have radius of 46.3".
STATINTL			Element #3 was found to be .093" light on center thicknessfelt this was not critical, although the print called <u>+</u> .005" tolerance on center thickness.
STATINTL			Element #4 was found to be .030" under It was also off .070" from curvature at the edges of aspheric surface.
		4.	Element #10 aspheric surface not very close to specified coordinates. Curve was off about .055" at edge.

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		5. Element #7 aspheric surface had visible ring.
		 Remaining surfaces were within + 1% radius as specified.
STATINTL	W/E 6-10-64	reported element #4 had been fractured after rough grinding was completed. They were procuring another blank.
STATINTL	W/E 6 -2 4-64	problems of glass in general, procurement of blank for
		element #4 in particular.
\mathbf{v}	7-31-64	Received new element #4.
		Very truly yours,
STATINTL		

Director of Operations

WHM:jb

VWFR		1
Approved For Release 2002/08/28 : CIA-RD	P78B04747A0	01200020003-4
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	7	
	_July 30,	1964

Dear John:

- STATINTL We have been in constant touch with They have now finished polishing the aspheric surface on element #4. Measurements made on it were passed on to us by phone and seem acceptable. It is now out for coating. However, we have reached a roadblock, because final centering of lineal turrets and the granite attachments cannot be done until we optically align the assembly. Further, the film tray assembly must also wait on this alignment before it can be put back on. In the meantime, the majority of electrical wiring has been completed, as has the plumbing. The reel is completed, and it appears it will function in a satisfactory manner.
- STATINTL Your man was here last week, and we went over the theory of operation as well as all circuitry involved in our Variable Width Film Reader. We covered all aspects including mechanical ones, although the stress was primarily on the electrical side. Unfortunately, the delay on the lens meant the machine was not operational, but I feel Ed's trip was still very worthwhile.

We still need enough film to check out the machine. Perhaps 1000' of 70 mm and 400' of 9-1/2" should be sufficient. It would be helpful if the film had images upon which we could perform test measurements.

Very truly yours,

STATINTL

STATINTL

Director of Operations

WHM:jb

cc: Contracting Officer

ENGINEERING SECTION/CB/PD/OL INSPECTION/CB/PD/OL INSPECTION OF CONTRACTOR OF CONTRACTOR OF COMMODITY OR SERVICE Variable width Film Reader CONTRACTOR IS ON SCHEDULE VES VES CENT OF WORK COMPLETED VES NO CENT OF WORK	Ty 1964 REPORT NO. (If final, so state) COMPLETION DATE at 1964 CTOR WILL PROBABLY REMAIN WITHIN ALLOC To o IF ANSWER IS "NO" ADVISE NAND7OR ACTION OF SPONSORING OFFICE, REOF. IF KNOWN, INDICATE MAGNITUDE OF DS INVOLVED. ND ITEM BEEN RECEIVED FROM THE CONTRACTOR A DURING THIS PERIOD? YTRACTOR S. BELOW AVERAGE BARELY ADEQUATE	REC- ON F ADDI- CTOR
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Completion of work and delivery is subject to receipt of the condenser elements from vendor. Work has been slow during the last month since the febrication is dependent upon having the condenser elements installed in place.

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Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4
June 26, 1964
Dear John: As you know, the optical system did not perform as expected when first set up. We measured the curvatures of all lenses, including the aspherics, and found the following:
One spherical surface was incorrect. Element #11 had a radius of 46.3 inches instead of 50.0 inches. This has been reground and polished and is ready for us to inspect.
Element #3 was found to have a center thickness 0.093" under print. felt this was not a critical point, so we will use this lens as is.
Element #4 is being redone because it was some 30 thousandths under in center thickness, but most important, the aspheric was off 0.070" at the edge. It will be complete, ready for inspection, by 3 July.
Element #10 has been redone also. The aspheric curve dropped off 0.055" at the edgehas obtained the new blank and has finished, ready for us to inspect.
Element #7 aspheric surface followed table, but there was a ring visible in the center of the lens. This has been polished out and is ready for inspection.
The remaining surfaces were all found to be within the <u>+</u> 1% radius as specified.
Element #1 has developed a slight crack along the edge because of im- proper tolerance on the mounting ring. Being quartz, expert opinion seems to think it will not get any worse.
Element #5 has a slight chip along the edge. Again, being quartz, and because the image is cone shaped, the element is usable as is. This was caused by frequent handling when trying to determine what was wrong with the system.

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STATINTL has rechecked the design, and he feels confident that when STATINTL the lenses are as specified, the system will perform as designed.

STATINTLThe encoders were rechecked with the counters and foundSTATINTLThe encoders were rechecked with the encoders and foundSTATINTLnot to be working well. Further checking showed the encoders were sent to encoders and for reworking, andSTATINTLdesign to be at fault. These boards were sent to for reworking, andwe now have them back. The system is functioning satisfactorily.

All the air bearings are functioning. The stage glides with 55 psi air;operation will be with 80-90 psi.

Plumbing is progressing well. The freon pump is in. Waiting for completion of reel.

Electronics are being mounted on console and servo bins (on right hand door). Cabling will commence as soon as parts are all mounted.

The PERT/Time analysis reflects the extra time we estimate needed to get back the new lenses and accomplish the remaining tasks.

Very truly yours,

STATINTL

Director of Operations

WHM:jb

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A minimum of one month's delay in delivery is anticipated due to rejection by f 5 of the condenser system optical elements from their vendor.

Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4

25X1A



Dear John:

STATINTL

Last Friday, 1 May 1964, we received the last lens for our condensing system. We are now in the process of preliminary alignment of the optical systems.

Light has been passed through portions of the system, and we are now correcting what appear to be minor mechanical interferences in the light path. Actual optical adjustment and assessment of the system optical quality will come after that.

As mentioned on your last trip, control placement will be as you saw the front panel. On the left hand side of the screen will be the end of film warning light, and below it the lamp current ammeter. On the right of the screen will be two lights; the top one warns of low freon level in the tray, and the bottom of abnormal conditions such as no air or overheating lamphouse. Of course, these conditions will automatically turn off the lamp to prevent damage.

AC power distribution and controls, logic and interlocking chassis will be on the left hand door, while the servo bins and power supplies will be on the right hand door.

In order to get your machine to you as quickly as possible, we are planning to fly it back East.

If problems arise, we will be in touch with you as necessary. We look forward to your next visit.

Very truly yours,

STATINTL

Director of Operations

WHM:DAW:jb

cc: Contracting Officer

Next 2 Page(s) In Document Exempt

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Progress thus far on the instrument appears highly satisfactory. Delivery has been delayed to June 14 due to failure of vendors to deliver the condenser elements on time.

anticipated due to the development of the liquid gate and condenser design. At the time of proposal, it was assumed that sufficient information on the liquid gate and light source was available from

available on either the dynamic liquid gate problems or light source. This resulted in more breadboard and engineering work than anticipated.

has indicated that an overrun of approximately 10% is

to aid in the gate design. However, after working with

it was determined that insufficient information was not

25X1A

25X1A



Dear John:

The machine is rapidly taking shape. We have checked the motions of the three lens turrets, as well as run the lamp housing with water as coolant.

Confirming telephone conversations, we will supply the Reader with the Lamp Power Supply in its own package. Everything else will be on the main frame. During installation, the freon pump will be dropped to the floor, to isolate any possible vibrations. It will still be within the machine, however.

Cooling of the lamp, as well as of the freen, will be done with water you will supply. No problems, such as algae, are anticipated, as the water does not flow through the light path.

Outlook looks good for delivery date of May 15, 1964. We look forward to your next visit.

Very truly yours,

STATINTL

WHM:jb

Director of Operations

cc: Contracting Officer

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.	17 March 1964	
	MEMORANDUM FOR THE RECORD	
25X1A	SUBJECT: Trip Report to	4
25X1A [.]		
25X1A	1. On the 6th of March, the undersigned accompanied by to review the progress on the visited to review the progress on the Variable Width Film Reader. In addition, we sat in on a presentation variable Width Film Reader. In addition, we sat in on a presentation	n as
25X1A	given to SAC personnel on a new ring to the second se	
25X1A	2. Due to the recent discrepancy in security certifications, t	nion
25X1A	security problems were discussed with of both parties that now has sufficient security clearances eith approved or in processing.	
25X1A	3. By tical consultant, was on board to most of the day and I had the opportunity to discuss the VWFR optical system which he designed and also briefly discuss the results obtain on the DSMP for which he also did much of the optical design. Some the more important considerations discussed were: a. Advantages of the Old Delft versus Polocoat screens.	
25X1A	a. Advantages of the ord borrer remain intensities achiev	ed.
25X1A	b. requested data on screen intensities achiev on the DSMP to aid him in his analysis of the design had data available and I will take additional foot candle reaches time permits.	
25X1A	cstated that full lamp intensity must not re the projection lenses on the VWFR for any extended period of t (open gate, full lamp intensity). Normal precautions are bein taken to guard against this.	ng
	d. The only filter planned for the optical system is the Diachroic mirror. This will have a 34 or 44 cutoff.	
	e. Corrector elements have been designed and ordered for 24X and 48X lenses. The function of these elements is basicl of a field flatner and they will be attached to the front of lens barrel.	the
25X1A 25X1A	f. The data on the eliptical reflector not been given to so I asked him to fill out a For for clearance so that we may discuss this data directly and we services again if required.	
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4. The readout electronic counter problems indicated in the last report were discussed with Apparently there are no serious problems involved and it is purchy a matter of proper communications. They have successfully operated the counters and feel it is a matter of properly connecting them. This has since been clarified. The problem was due to a shipping error.

5. The control panel was reviewed by and several small changes were made in the physical location of some of the controls. I requested that the transport mode switch be deleted from the panel and the functions interlocked directly with the controls. I also requested that they not delete the speed range selection controlled by magnification selection as they indicated in their last report.

25X1A	6.	. No	on-	personnel	present	at t	he Film	<u>Viewer</u>	present	atior	<u>n were</u>	
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23717						The	e basic	specific	ations	TOL	tne	
	viewer	are	;			_						

a. $9\frac{1}{2}$ "x $9\frac{1}{2}$ " maximum aperture at 3X, with 6X, 12X and 30X projection on a 30"x30" screen.

b. Overall dimension of 87" long, $34\frac{1}{2}$ " wide, 68" high with an estimated weight of 2400 pounds.

c. Light source - a 1500 watt tungsten lamp with screen brightness spread of \pm 10%. No figure was given as to the nominal brightness achieved.

d. The projection optics and transport are to be a removable subassembly for ease of maintenance.

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Development Branch, Paul

Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4

SECONT

STATINTL Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4 UNFR 2 March 1964 Attention: Contracting Officer Expenditure Report - Contract Subject: STATINTL Gentlemen: Pursuant to the terms of the above contract, the expenditures as of 23 February 1964 are set forth in the attached report. Very truly yours, STATINTL STATINTL Business Manager BCJ:lhf Enclosure

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	February 2	6, 1964	

Dear John:

STATINTL

The experimental phase of this job is finished, and hardware is taking shape.

Results of the experiment indicated the following changes, which are being incorporated in the prototype machine:

The pressure differential capstan scheme has been discarded. It was found that no capstan (pressure differential or plain roller, or pressure roller) could drive film at the required slew rate of 250 ft/min (50 in/sec). The freon, at high capstan speeds, acted as a lubricant so that the film would slip. But at measuring speeds (l"/sec.) even a simple capstan would drive the film without slipping.

Accordingly, a simple capstan is to drive the film at measuring speeds, and for the scan mode of operation. When slewing, the capstan will free wheel and the reel motors will provide driving power.

STATINTL To further insure accuracy, a metering roller, similar to the capstan, will be used to drive the encoder for actual measurement. Since less force is required to drive the encoder from the film than to drive the film from the capstan, accuracy (slippage) will be independent of film driving.

Speed reduction between drive motors and capstan will be about 50 to 1, giving much greater control and smoothness at low speeds. Because of the great speed range available, programmed speed ranges with magnification changes do not seem necessary, and will be eliminated in the interest of simplicity.

Condensing lenses have been ordered with delivery in early April promised. The quartz cold mirror reflector for the Lamp House will also be delivered in early to middle April. Our delivery depends upon these suppliers.

STATINTL

has just completed design of corrector lens systems for 24 and 48 power. We will have to get these ordered, but these units can be fitted during testing if necessary. Because the focus control may be needed for fine adjustment during measuring at higher power, it should be on the left of the console. The operator's right hand would be manipulating the joystick, leaving his left free for focussing. A sketch showing our present thinking on control placement is enclosed. Note that only operating controls are accessible. Start and stop switches will be mounted on the side of the machine.

STATINTLST

STATINTLBecausecounter plugs forpower were wired differently, oneSTATINTLelectronics unit was damaged. Also, the logics seemed to give erroneous
signals. Further, the bearings on the model 35 were binding. For theseSTATINTLreasons theElectronics and Encoders were returned to the factory
for repair and reinspection.

During the experiment, noise from the servo system got into the counting system, giving erroneous results. This points out a need for proper shielding in the finished machine, which will be accomplished.

Very truly yours,

STATINTL

Director of Operations

WHM:DAW:jb

cc: Contracting Officer



Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4 $\underline{CONSOLE\ LAYOUT}$
Next 2 Page(s) In Document Exempt

Approved For Release 2002/08/28 : CIA-RDP78B04747A001200920003-4 Variable STATINTL Film Render 31 January 1964 Attention: Contracting Officer STATINTL Expenditure Report - Contract Subject: Gentlemen: Pursuant to the terms of the above contract, the expenditures as of 24 January 1964 are set forth in the attached report. STATINTL Very truly yours, STATINTL Business Manager BCJilhf Enclosure Air Mail

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Approved For Release 2002/08/28 : CIA-RDP78B04747A00 2000 3 Film Width Rese

STATINTL

January 17, 1964

File Variable

Dear John:

During January we concluded that the vacuum capstan was inadequate as designed. Although the counters have not yet arrived, our tests showed that there was slippage between film and capstan.

Part of the trouble was traced to deficiencies in the capstan, namely leakage of freon from the high pressure side. Other causes of trouble seem to be excessive friction on the low pressure side and through the film gate itself. This whole problem is being looked at, and a new approach to the capstan will be tried.

The new approach will use a solid capstan (of hard rubber), and the film will be held to the capstan by freon under pressure from a fitted shoe. Advantages include more positive drive (higher pressure available) and considerable savings in manufacturing costs.

Designs for subsystems are well along. The new film tray castings are ready for machining. Drives for X and Y are being detailed. Projection turret design is in progress. The mockup is being updated. The rotating joystick assembly is being designed.

STATINTL Most critical item at this time is the condensing system design, which is not yet complete. discovered an error, and had to back up considerably. We nad gotten several bids on the former design, and best possible delivery was eight weeks, with most vendors quoting twelve weeks ARO. If we get final information immediately, we will still be about a month behind schedule. STATINTL We are contacting at your suggestion in hopes of managing faster delivery on the lenses. Final design is being held up by this delay in the condensing system. Condensing lens turrets, mount for doughnut, lamp housing design, frame, etc., are all dependent upon lens diameters and locations, etc.

A summary of the image inversion problem and our proposed solution to it will be forwarded under separate cover.

Preliminary console layout of operating controls is shown on Dwg. ED588 enclosed. Please comment and return one copy, marked up if required.

Very truly yours,

STATINTL

Director of Operations

WHM:jb

Enclosures

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File

30 December 1963

Attention: Contracting Officer
Subject: Expenditure Report - Contract

Gentlemen:

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Pursuant to the terms of the above contract, the expenditures as of December 29, 1963 are set forth in the attached report.

Very truly yours,

Business Manager

BCJ:lhf

enclosure

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Dear John:

1.1

Our progress this month has been considerable. We have designed the granite doughnut and film tray to rotate on a large ball bearing. The cables to the film tray, as well as the air and freon hoses will travel up through the hole in the granite, just outside the light path. This will allow the table to rotate without undue stretching or reeling of hoses and cables.

We have decided to use independent fluid systems for the gate and for lamp cooling. In this way a much smaller refrigeration system can be used for the film gate coolant. Since lamp temperatures need not be as low as the film, a direct fluid-to-air heat transfer device will be used.

It should be noted that roughly 25,000 BTU/hr will be dumped from the reader. We will provide a connection such that the warm air can be discharged either directly into the room or ducted to an exhaust line.

We plan to use a double action air driven pump for the film gate freon system. A pump of this type has been run to prove feasibility. Bellofram rolling diaphrams will be used to provide long life, and a completely sealed freon system. Noise, vibration and heat have been markedly reduced.

STATINTL We have received from the second rough condenser system diagrams. They are not what we had hoped for, as the lens elements which must be changed are still up inside the doughnut bearing. This means a more complicated condenser changing mechanism, but it is still reasonable. Final information won't be in hand for two weeks, so we cannot order lenses until then. This puts a premium on rapid delivery of lenses.

-2-

Since we can get most of the freon off the film with rollers, perhaps the rewinding will have to be done with the low pressure lid open, evaporating the remaining coolant from the film. In this case there would be some loss of freon to the air, but the film would be dry as removed from the reader.

Our real hope is that the rollers will remove enough freon to leave the film in a satisfactory condition when used in the closed system. First tests look promising, and we should know by next week if this is to be the final solution.

Finally, we come to the projection screen. Polacoat will coat a glass plate which we supply with reticle engraved or silk screened. Alternately a reticle could be scribed or drawn with pencil on a polacoat screen.

STATINTLis willing to supply a 30" x 30" screen. They
would stretch a horizontal and a vertical wire, .0025" each, from top to
bottom and side to side, and imbed them in the plastic material between
the two glass sheets. Since they have never made a screen larger than
22" x 22", they would build this first screen for
on a 30-day
trial, money back if not satisfied. We plan to order one screen from
each supplier.

Would you please indicate the exact configuration desired for your reticle. We'll need this to order the screens by 16 December.

Very truly yours,

STATINTL

е,

Director of Operations

WHM:jb

cc: Contracting Officer

STATINTL

3 December 1963

STATINTL

STATINTL

Attention: Contracting Officer

Subject: Expenditure Report - Contract

Gentlemen:

Pursuant to the terms of the above contract, the expenditures as of November 24, 1963 are set forth in the attached report.

Very truly yours,

BCJ:lhf

Business Manager

enclosure

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29 October 1963

 Attention: Contracting Officer
 STATINTL

 Subject: Expenditure Report - Contract
 STATINTL

 Gentlemen:
 Gentlement

 Pursuant to the terms of the above contract, the expenditures as of September 30, 1963 are set forth on the attached report.
 STATINTL

 Very truly yours,
 STATINTL

 BCJ:hf
 Business Manager

 Enclosure
 STATINTL

STATOTHR



Dear John:

Here is the PERT/Time Analysis for this month.

During the month we have decided to use the _____lamp, as outlined in a letter to you. We have also decided against prisms for rotation, and will use the brute force approach of actually turning the film tray.

STATINTL We have been working closely with and he is to complete his work by 1 November 1963. Also, it appears feasible to provide the viewing screen with built-in reticle. The PERT chart is revised to show these changes.

The film tray experiment is progressing. We are working on elimination of flutter of the film in the gate. We are also trying to determine the factors controlling the plane of the film in the gate.

To eliminate the noise and vibration of the Freon pump, we are investigating using air pressure to pump the Freon through the system. Using a diaphram, the approach seems quite feasible, since you are providing air for bearings already.

We are now in the process of tying down the rotary table details. The possible approaches include hoses, or a slip ring arrangement for bring-ing the Freon in and out, and also for the air requirements. Because of lead time, this path is now critical.

The air knife looks like it might become a tremendous problem. We are building an experimental knife to strip Freon from the film in a closed circuit push, pull arrangement. Getting Freon liquid out of the ail is a large order. Open systems would of course loose too much Freon.

 \sim

25X1

STATINTL

-2-

Would it be acceptable to transfer the wet, rewound film to another device to be dried? Such a drier could be shared by a number of readers.

STAT ________ is providing all power needed for the ________ and for the _______ 25X1 interface electronics between encoders and counters.

STATINTL

Very truly yours,



WHM:jb

cc: Contracting Officer

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Here is the Pert/Time Analysis for this month.

The Experimental Tray is progressing very nicely, and we should be ready to run on 23 September. This will answer questions such as: will the film stay flat; what pressure range is suitable; what the flow rate through the gate is vs. pressure and platen spacing; what happens in the gate when slewing; what the performance is of the film drive system; and pave the way for final design.

Next Monday, September 23, we will have the answer to two basic questions: which lamp we will use and whether we can use Pechan prisms for rotation of the image to avoid rotating film gate. I am therefore not changing the PERT chart for now, but expect the next report may contain a revised Chart based on the above information.

STATINTL ______has been retained for the optical design of the instrument _______will complete the design by 1 November 1963, with preliminary information starting 23 September 1963. We are holding up design of the rotating table for a week. If the resolution using a rotating prism is satisfactory, we would probably go that route with the following mechanical advantages accruing: no need to lift the tray for rotation; no coupling needed to rotate joystick in synchronism with table; no air bearings on table for rotation, etc.

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will also specify a lamp by next week, so that we can start on lamp housing design, etc. By having outside help, we can do parallel designs in house of lens turrets, condenser switching mechanisms, etc., which will be reflected in next month's PERT Chart.

Very truly yours,

STATINTL

WHM:lhf

Director of Operations

Enclosure (Pert/Time Analysis)

cc: Capproved for feesse 2002/08/28 : CIA-RDP78B04747A001200020003-4

Next 2 Page(s) In Document Exempt

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STATINTL

Subject: PROGRESS REPORT - Variable Width Film Reader

STATINTL

Dear John:

The present status of our work on the Variable Width Film Reader is as follows:

1. An experiment has been designed to check the liquid film gate for the following: satisfactory metering of film, dynamic characteristics of film in gate, slewing of large film reels, parameters of the air knife, operation of the servo systems, convenience of loading and operation, and operating characteristics of the liquid circuits. Schedules have been prepared for this portion of the work in detail, layouts and block diagrams have been made for the mechanical, electronic, piping and instrumentation sections. Release of parts for fabrication will commence Friday, 9 August. Electronic parts are already being purchased for the film drives.

2. The optical layout is in process. A large proportion of the work depends upon defining a light source. The physical dimensions as well as the basic design of the light source will affect the machine structure. STATINTL Consequently has been contacted several times regarding their program. The last phone contact was shortly after our last communication with you on Thursday, 8 August. At that time, STATINTL indicated he was still bothered by the characteristics or the light field resulting, he thought, from an uneven surface on the reflector. It is planned that he will call us no later than Monday, 12 August, to inform us of the earliest time when two light sources will be in operation for us to observe. I requested that we be able to see them prior to your visit here. This will allow us to discuss with you the very real possibility that a conventional optical system will be required.

Subject: Progress Report -Variable Width Film Reader (Job 165) 9 August 1963

- 2 -

3. Layout of the remainder of the machine is proceeding more slowly than the film gate. Of necessity, we are checking interferences at various points on the equipment, and this has resulted in several layouts to define the limits of action of the lens turret, etc. This portion of the job is not being accelerated at the same rate as the gate. However, it should be noted that the gate will be complete and operating 15 September. Prior to that time, most of the engineering on it will have been completed and the personnel working on that can be diverted to the remainder of the machine.

We do not presently foresee any difficulty in making our originally scheduled delivery of the machine.

Very truly yours,

STATINTL

WHM:lhf

Director of Operations

Next 2 Page(s) In Document Exempt

19 August 1963

Attention: Contract	ing Officer	
Subject: Expenditur	re Report - Contract	
Gentlement		
	ns of the above contract, the ire listed below. Please note ie committed purchase orders enditures.	I TITCLE CLARKER
R Estimated cost f (Exclusive of Fig	for performance of contract xed Fee)	
R		
	Very truly yours	•
BCJilhf	Business Manag	er

STATOTHR

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25X1A

Approved For Release 2002/08/28 : CIA-RDP78 Berr 47A001200020003-4 Kinder

	MEMORANDUM FOR: Assistant for Plans and Development, NPIC
25X1A	ATTENTION
	SUBJECT
25X1A	1. Reference is made to the memo of 5 February 1964
\checkmark	1. Reference is made in summary of a paper they desire to refease requesting approval of their summary of a paper they desire to refease to the March meeting of the ASP concerning the use of liquid freon
25X1A	by trac ne nas appert
25X1A	2. Release of the summary as printed, is security approved with use admonition that nust be reminded that in no way can they
25X1A	identify the sponsor, and therefore must claim the use of 12000 It is
25X1A	coolant as being an in-house project sponsored solver officials understood that will so advise the company officials
	involved.
25X1A	
	Chief, Security Branch Administrative Staff, NPIC
	CONCURRENCE:
25X1A	
	NPIC
	Distribution: Orig.&l - Addressee l - C/LB/AS/NPIC
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	TO The second
	Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4

CONFIDENTIAL

16 December 1965

25X1A MEMORANDUM FOR: SUBJECT : New VWFR Controls

25X1A 1. Experience in operating the WFR indicates a need for the fellowing supplementary controls:

1. A lamp "Start" switch on the operator's control panel.

2. A "Serve Stop" switch within reach of the "Serve Start" switch and also on the operator's panel.

DO OT DELOTIO

2. The first is a convenience to allow starting the lamp without walking to the rear of the machine. The second will help prevent film damage should the film be incorrectly threaded or break when the servos are energized. At present, one must run to the opposite side of the VWFR and throw the "Load-Operate" switch to "Load".

25X1A

Distribution: Orig & 1 Addressee

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25X1A

CONFIDENTIAL CONFIDENTIAL Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4

Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4 PEDS/DB TYPING SLIP - Variable Width Film Ruder (Memo) Charleston Conf. Project No. 997053 STATINTL Drie 7 Jan 66 Originator 2 Thief (ISS) (855) Initials 1 Date Von Type Rough Dete Deputy Chief, DB Initials ____ Date 3 H Shier DB Initials _____Date 4 5 hast for F&DS Initials Date 5 B Type Smooth 11 Jan 66 Date of Final Disposition Return this slip to originator after final disposition Remarke: Genry - Prot of the problem is in IPD - we should try out an openshioust feed program that we want OAG to follow - with definite questions about the wide use that we want answered and send a copy to IPD to STATINTL see "it they can doopende in the program. - See STATINTL me a led belk short this. Approved For Release 2002/08/28 : CIA-RDP78B04747A001200020003-4 See 997295 file (Meno to PAG)

	Ар		NFIDENT	A-RDR78B04747A001200020003-4
ILLEG	IB	h		DRAFT NPIC/P&DS/D/6-193 10 February 1966 16 Hat 66
	MEMORANDUM FOR:	Chief, Image Analy	vsis Divisio	
5X1A	ATTENTION:		1	
5X1A	SUBJECT:	Evaluation of	Variable Wi	dth Film Reader
5X1A	l. The		Vari	able Width Film Reader
	installed in PAG	room, has been ac	cepted by P&	DS/NPIC as a working proto-
	type rear-projec	tion reader. In o	rder for the	e Development Branch to
	improve on the p	production model dea	sign and est	ablish the validity of a pro-
\checkmark	duction model, it	; is requested that	IAD evaluat	te the prototype Variable
	Width Film Reade	≥r.		
	2. This eq	luipment is a proto	type,and P&I	OS realizes that there will
	be undersirable	features, inconven	einces and r	naintenance problems associated
			i	to evaluate the Variable Width
	FIIm Reader for	its usefulness as	an interpre	tation tool.
	3. Attache	ed is an equipment	evaluation :	form that may be helpful in
25X1A	performing the a	evaluation task.		of the Development Branch, is
	available for d	iscussion of any ma	atters regard	ding the use of this machine.
5X1A				
		Assis		olonel, USAF ans and Development, NPIC
	Attachment: Eq	uipment Evaluation	Form	
	Distribution:			
	Original a	nd l - Addressee l - Project File l - Chrono/DB	e/DB (#99705	5-3)
5X1A	NPIC/P&DS/DB:		(10	Feb 66)
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		CUN	FIDENTIA	

STATINTL

191002

NPIC/Pads/D/6-793 16 February 1966

	MENADANDANDA	Chief, Image Analysis Division, CIA
25710		
25X1A	ATTENTION:	
25X1A	SUBJECT:	Evaluation of Variable Width Film Reader
25X1A	1. The	Variable Width Film Reader Room 38435D, has been accepted by P&DS/NPIC as a working
·	mototyne rear-n	rojection reader. In order for the Development Branch e production model design and establish the validity of
•	to improve on the a production mode reader,	el, it is requested that IAD evaluate the prototype
	2. This eq	uipment is a prototype, and P&DS realizes that there will
	be undersirable associated with	features, inconveniences, and maintenance problems its operation. However, we request IAD to evaluate the sefulness as an interpretation tool.
		d is an equipment evaluation form that may be helpful in
25X1A	norforming the a	valuation task of the Development Branch, discussion of any matters regarding the use of this
	machine.	
25X1A		
		Colonel, USAF
		Assistant for Plans and Development, NPIC
	Attachment: Equ	ipment Evaluation Form
	Distribution:	
-	Orig and 1 2	- Addressee - DADS/DB - 1-Project File/DB (#997053) 1-Chrono/DB
	. –	(10 Feb 66)
25X1A	NPIC/P&DS/DB	(10 Feb 00)
		and the second
	Аррі	roved For Release 2002/09/28 ACIA-RDP78B04747A001200020003 4 column setuments downgrading and declassification