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	STATUS REPORT
	for Period
	1 JUNE through 30 JUNE 1969 Submitted under Contract to
	U.S. Government STAT
	File No. 11038
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D		
	This document is presented as the Monthly	
0	Status Report under Contract to the U.S.	СТАТ
	Government, The report period represented herein covers	STAT
احا	the period 1 June through 30 June 1969.	
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	٠.	Δ	PPENDICES			
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	,					
			:			
		Trip Report		Appendix I		STAT
		<u>.</u> .				
		Progress Report -	for period ending			STAT
	•	May 31, 1969	ior portion ondering	Appendix II		
						STAT
-			Report - for period	Appendix III		
		ending May 31,	, 1909	Appendix III	•	
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	PROGRAM SUMMARY
•	Scheduled Percentage of Completion 67.2%
	Actual Percentage this Date 62.2%
	There have been several major accomplishments
	to the program during this reporting period each of which are
	discussed more fully under the individual task headings. In
•	summary these achievements are:
	1. Completion of the utilities cabinet.
	2. Installation of inter-cabinet cabling and
	hook-up.
	3. Air conditioning to the assembly area is in
	operation and provides environmental control which can be used for
	interferometer checkout.
	4. The Optical Subcontractor has performed several
	preliminary tests which indicate satisfactory resolution in the system.
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	•••			
	Task 01	Statements of Work, Specification	ons,	
			\$ 7	
•		Scheduled percentage of complet	ion 70%	
		Actual percentage this date	70%	
		No new specifications were deve	loped or issued	
	during this rep	port period.		
		Monthly reports from our subcont	ractors are	
	incorporated i	nto this document under appropriat	te task headings	٠.
•	or in the Appe			
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•	Task 02	Scheduling and Planning		
			-	
		Scheduled percentage of completion	70%	
	•	Actual percentage this date	70%	
		Detailed schedules for systems checkou	t and	
. •	tests which	will be implemented when the Optical syste	em is	
	received are	e currently being worked out.		
		It is anticipated that these schedules wi	ill be	
	ready in Aug	gust.		
		•	•	
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				electric section of the section of t
	•	· ·		
=		Task 03	Test and Inspection Procedures	
	A Company			
	,		Scheduled percentage of completion	5 6%
	* :		Actual percentage this date	50%
			Work is progressing in the development	nt of test
		procedures to	be implemented in the various subcontr	actor's plants.
=			It is expected that the first of these to	ests will be
	•	conducted at	during August 1969.	STAT
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						•		,
Task	04	Management,	Admini	stration ar	nd Supervi	sion		
		Scheduled perd	centag	e of comple	etion	70%		
		Actual percent	age th	is date		70%		
							i	
		Management a	nd Adn	ninist ra tive	function	s are	• .	1
proce	eeding norn	mally with no m	n ajor d	epartures :	from the o	riginal		
Mana	agement pla	an.			•			
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		٠.				
_	en e			ing diagram of the second seco		
		Task 05	Meetings			
	•		3 -, .			
ю			Scheduled per	centage of completi	on :	70%
						7.00/
5	•		Actual percent	tage of completion	•	70%
P					•	
			The program n	nanager met with va	rious custo	omer
		representative	s at the buildir	ng site on June 11th	for the pu	rpose
_				•		
		of coordinatin	g installation a	nd environmental co	Our or activ	villes.
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3											
	•		.		•				1 d		
3 .		Task	06	Facilit	ies Requ	irements					
⇒ -		·		. v							-
				~					2.22	•	
- -				Schedi	ned perc	entage of	f complet	ion	98%		
] H				Actual	percenta	ige this d	date	•	88%		
⊒ ,						•					
_	•		, W	The as	sembly a	rea air c	onditioni	ng is 'or	line'		
7		onia	'coarse		•						
7	•	neat	ing is op	erating a	s planne	d but the	system	for envir	onmental		
= -	•	conti	rol of the	electro	nic cabin	ets is no	t yet act	itioning is 'on line' , ventilating and stem for environmental et activated. This is are presently being be closed up. plete system will be			
		due t	to the fac	ct that th	e electro	nic syst	ems are p	presently	being		
_ 		teste	ed and th	e electro	nic cabii	nets canr	not be clo	sed up.			
-				We an	ticipate 1	hat the c	complete	system v	vill be		
7		in on									
3		III OĻ		during th	e latter p	art of ju.	ıy.				
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Task 07	Main Frame and Structural Elemen	ıts	**************************************	•
			*	
•	Scheduled percentage of completion	on 98	%	r
	Actual percentage this date	93	%	. •
	The main frame for the Stereocomp	parator was		
completed in	September 1968.			,
	No additional work will be schedu	aled for this		
Task until th	ne return of the Optical Bridge by the			
contractor.		,		
confidetor.				
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_		Task 08	Skin								
3									,		
7			Schedu	led perc	entage of o	complet	ion	35%			•
_			Actual	percenta	ige this da	te .		30%			
7								. ,			
⊐ 			The fal	oriantion	of the out	ornal di	kin ana	tions h			
			•		of the ext						
¬		been comple	ted to the	point w	here the to	tal ass	embly i	s neede	ed		•
		in order to f	inish this	Task.	•						
Į.			No furt	ther work	is anticip	oated ur	ntil the				
=		Stereocompa	rator has	been cor	npletely as	semble	d.				
7	•										
= ¬							•				
					•						<u> </u>
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٦.				•							

Task 09	Granite and Ways Assembly for St	tage	
	Scheduled percentage of completic	on 98%	
	Actual percentage this date	98%	
	No further work is anticipated on	this Task at	
this time.			
•		•	
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•		•	•
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			•	* ************************************		
•	• •		,	.:		erin .
	Task 10	A day Day and a second				
	Idsk IU	Air Bearings				. *
					,	
		Scheduled percen	ntage of comp	letion	98%	
		Actual percentag	e this date		90%	•
					**	•
	•	As previously reg	orted, the al	r bearings :	Were	
	installed on h	ooth stages in Febr		· ocarrigo		
						•
		No further work v				
	utility cabine	t is completed follo	owing which,	the bearing	gs will	
	be tested with	the interferometer	·s.			·
						٠.
					·	·
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					•	
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•				•		

			•			
	Task 11	Stage Drives				
1		•	-			
		Scheduled per	centage of co	mpletion	89%	
		Actual percen	tage this date	•	65%	•
		Installation o	f the stage dr	ive assembli e	s on	
	the right and	left hand stages	s was complet	ted during this	report	
	period.					
		Testing of the	assemblies v	will be conduc	ted after	
·	the utilities	cabinet has been	completed.			•
	e e		•			

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	Task 12	Film Drive and Transport System		
		Scheduled percentage of completion	73%	
		Actual completion this date	68%	
•		The modified film drive and transport s	ystem	
	has been inst	talled. Formal testing will be accomplish	n ed during	
	the next repo	rt period.		
4				
				•

Scheduled percentage of completion 98% Actual percentage this date 85% The platen holders with film handling equipment have been installed and are scheduled for testing during the next report period.	, ,			
Scheduled percentage of completion 98% Actual percentage this date 85% The platen holders with film handling equipment have been installed and are scheduled for testing during the next				
Actual percentage this date 85% The platen holders with film handling equipment have been installed and are scheduled for testing during the next		Task 13	Film Platen and Film Clamping	
Actual percentage this date 85% The platen holders with film handling equipment have been installed and are scheduled for testing during the next	v			, .
The platen holders with film handling equipment have been installed and are scheduled for testing during the next	• •		Scheduled percentage of completion	98%
have been installed and are scheduled for testing during the next			Actual percentage this date	85%
have been installed and are scheduled for testing during the next				
			The platen holders with film handling	equipment
report period.		have been inst	talled and are scheduled for testing du	ring the next
		report period.		,
		report period.		

,			
Task 14	Film Cooling		
	Scheduled percentage of completion	81%	
	Actual percentage this date	55%	
	The utilities cabinet design has been r	m od ified	
to provide t	he additional valves and tubing required fo	or film	
cooling. The	hese valves have been installed.		

					÷.
		visit is include	The monitor's Trip Report for the d in the Appendices.	plant	· STAT
	. * •	assembly or tes	t delay could be anticipated.	nlmut	СТАТ
	•		s in the event of technical difficulties dur	ing	
			The present work schedule cont		STAT
	:	tests.		•	CTAT
		and make	e the definitive optical and electromechan	ical	STAT
	;	parts together w	with the electronic and drive components s	upplied	
•			The work remaining is to assemble the		STAT
•		Stereocomparato	or.		
		completed all pa	arts both mechanical and optical required	for the	
			The subcontractor,	has	STAT
		plant during the	week of June 16th.		
			A visit was made to the optical subcontra	actor's	
		•		4	
			Actual percentage this date	79%	
			Scheduled percentage of completion	87%	
		٠.			
		Tasks 16, 17 and 18	Viewing Optics, Viewing Illumination, Re Projector and Illumination	eticle	÷
					•

					* .	•	√.	
				٠.				
•	Task 20	General Pla	ten Illuminat	ion 🐪				
•			percentage of	f compli	etion	97%	4. 	
		* 4 · · · · · · · · · · · · · · · · · ·			0 C1 O,1			
		Actual perc	entage this d	late	÷	55%		
				te Ten				
		No additio	nal work was	schedu	iled for	this task		
		Section 1	1101, 110111					
	for the month	of June.		****			i.	
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3	
3	Task 21 Optical Bridge and Supports
ת ב	Scheduled percentage of completion 96%
ار 1	Actual percentage this date 90%
] 	During this report period,continued to inter- STAT face with the Optics subcontractor on items relating to the installa-
3	tion of internal cabling and controls. It is anticipated that this phase of the task will
7	be completed in the month of July.
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7		
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7		
=	Task 22 Interferometer Assembly	
7		
	Scheduled percentage of completion 78%	
3	Actual percentage this date 65%	
7	00%	
	The interference charles while and all 1 1 1	
	The interferometer checkout, which was scheduled	
	to begin during this report period, has been delayed in order to	
	provide additional time for the Optics drives checkout and	
7	computer program integration.	
_	Checkout has been rescheduled for the month of	
]	August.	
=		
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7		
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Task 23 Optics Drive Assembly

Scheduled percentage of completion

77%

Actual percentage this date

70%

Work continued on the systems checkout of the optics servo drives using the optics servo breadboards and the D/A - A/D converters. The systems were driven by the computer and its interface circuitry. With the optics drives being simulated by the servo breadboard assembly this is, in effect, a test of the actual computer controller optics drives. Various noise and timing problems associated with the inclusion of the computer and interface into the system have been resolved.

The final checkout of this system for sensitivity, noise immunity, cross-talk and stability will be completed in the next report period. This test will be driven by a specially prepared test program.

The automatic brightness control loop is in the computer model stage. The system parameters are known and the hardware related to these sections has been specified. There is further work to do but no difficulty is expected.

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		Task 24	Image An	alysis Sy	stem				
				: '					
	÷		Schedule	d percent	age of comp	letion	75%		
				ercentage			90%		
			Actual pe	acentage	tills date		3 J / C		
								. •	STA
			Progress	on this to	ask is detail	led in	Progress		SIA
		Report for th	e period end	ling May	31, 1969, w	which is in	cluded as		
		Appendix II	to this repor	rt.					
		• •			otance testin	ng of this	system is		
		tentatively s	scheautea to	or the wee	k OI August	10 Of Aug	ggt 20.		
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	Task 26	Digitizing Logic Subassembly	
		Scheduled percentage of completion	98%
		Actual percentage this date	90%
P	- 1 00 O	This Task is now covered under the di	SCussion in
ь	Task 28 - Out	out Logic and Interfaces.	•
		Please refer to this Task.	

. •		4	•
Task 27	Metric Readout		
	Scheduled percentage of completion	98%	
	Actual percentage this date	95%	
	mit manta ta a san manana di undan tha (
	This Task is now covered under the (Output Logic	
and Interface		Output Logic	
and Interface			
and Interface	es Task 28.		
and Interface	es Task 28.		
and Interface	es Task 28.		
and Interface	es Task 28.		

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					· .		
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	·	Task 28	Output Logic	and Interface			
			+ . · · · · · · · · · · · · · · · · · ·	•			. *
			Scheduled pe	rcentage of comp	letion	98%	
			Actual percen	tage this date	1	80%	
F			During this re	eport period work	continued in	the	
۰		testing of con	mputer interface	with the AD/DA	converter and	l the	
		*	rmation utilized	l in the optics si	mulation test	3	•
	e e e e e e e e e e e e e e e e e e e	(Task 23).					
				that these tests			•
				logic checkout of	f film and stag	ge drives	
		will be starte	d.				
		•					
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		Task 29	Cabling	
			Scheduled percentage of completion 98%	
	• .	•	Actual percentage this date 94%	
			Manufacture of all required cables and checkout	
		of over 70% of	f installed cables has been accomplished during the	
		month of June		
		. :	It is anticipated that checkout of the remaining	
		cables will be	e completed during the next report period.	
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3				
	•	Task 30	Control Console and Chair	
_				
3			Scheduled percentage of completion 97%	•
			Actual percentage of completion 83%	
-				
			Work continued on checkout and tests of controls	
7		and interfaces	between console and cabinets during this report	
_		period.	botwoon oonbord and odornors daring mis roport	•
∃		period.	All functions and enerational modes, which were	
7			All functions and operational modes, which were	·
=		checked, have	proven to be in order.	
7			Cable interconnection between the control console	
= =		utility distribu	ition panel and cabinets have been completed.	
7				
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8		Task 32	Computer				
		•					
				ercentage of com	pletion	98%	
			Actual perce	ntage this date		95%	
			The computer	system is opera	ating as pla	nned with	
		the punch/tel	etype int erfa ce	completed.	•		· i · · · · · · · · · · · · · · · · · ·
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	2 - 19		*		See to the second
	Task 33	Electronic Rac	ks and Control C	abinets	
		Scheduled per	centage of comple	etion 98	3%
		Percentage co	mpleted this date	9()%
<i>:</i>		This task has	been completed of	luring this rep	ort period
	with all cha	assis installed, in	ternal cabling co	mpleted and e	xternal
	power conn	ected to the utiliti	es control panel.	• •	
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-i		Task 34	Utilities, Va	acuum and Air	System	s ·			
	· :			ercentage of		ion	80%		
			Actual perce	entage this da	te		75%	•	
			mb to d		f +h		:mml	-	
		of the utilities		vacuum lines				ons	-
		piping complet				•			
		the valves and							
				l connections			le to the	m ai n	
		and subbreake	rs in the elec	tronic portion	of the	u tilitie s	cabinet.		
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П						٠		٠,	
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				-29-	•			•	

Task 35 Vibration Absorption and Leveling

Scheduled percentage of completion 90%

Actual percentage this date 85%

No further work is scheduled for this Task until the Optical Bridge is received from Sopelem. At this time, full tests of response time and stage deflection will be conducted.

This delay is necessitated by the requirement for full weight loading of the stages during these tests.

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- -						
	Task 36	Overall Assemb	ly			
- -		Scheduled perce	entage of com	pletion	5 6%	
		Actual percenta-	ge this date		33%	
- -		Steady progress	toward the o	verall asser	mbly of the	
	Stereocompara	ator and related co	omponents is	being made	•	
		This report period	od was highli	ghted by the	following	
-	accomplishme	ents:				
		1. Completion	of the utilitie	s cabinet a	nd putting	
	it 'on line' as	the power source	of all electro	onic compor	ents.	
7	•	2. Installation	of the utilitie	s (vacuum	and air)	
	piping to the	rear of the Stereo	comparator to	provide the	source of	
	cooling air wh	nich is required.				
3		3. Completion		_		
		4. Completion	of chassis in:	stallation in	the electronic	!
	çabinets.					
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	Task 37	Radio F	requency No	lse Suppr	ession			•
		•						
		Schedul	ed percentag	e of com	pletion	0%		
		Actual	percentage th	nis date		0%		
	٠.	No work	was schedu	led on the	his Task i	for the m	onth	
	of June.					-		•
. *		•						
				•				

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		·		
	Task 38	Environmental Control		
			0.1.04	
		Scheduled percentage of completion Actual percentage this date	n 81% 87%	
	this report per	The program manager met with the original discussions related to		ag
	preparation red	quirements.	•	·

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						•	
		Task 39	Reliability Analy	sis			
			a de la companya de l			•	
			Scheduled perce	ntage of compl	etion	0%	
			Actual percentag	e this date		0%	
					-		
			No work was scl	neduled on this	Task for th	e month	
	·	of June.					
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	To ale 40	Installation			
	Task 40	Installation			
		Scheduled percentage of	completion	0%	
		Actual percentage this da	ate	15%	·
· · · · · · · · · · · · · · · · · · ·		During the month of June,	, a general disc	cussion of	
	installation pr	ocedures was held at the	•		
	see Task #5-1	Meetings, and Task #38 - 1	Environmental (Control.	
					·
• .					
•					

Task 42 Breadboards and Test Devices

Scheduled percentage of completion

54%

Actual percentage this date

55%

Work is continuing on servo compensation and performance tests at this writing.

It is anticipated that the tests for compatibility of computer tracking program and the servo motors will be conducted during July.

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	Task 43	Computer Programming and Services		
		Scheduled percentage of completion	7 0%	
		Actual percentage this date	65%	
		progress report for the pe	riod May 1	STAT
	to May 31,	1969, is included as Appendix III to this	report.	•
	7	It will be noted that the percentages s	•	
	·	and actual completion for the month of June	e are lower	
	Lian those	This diagraphs is due to a read all l	,	
	Informatics	This discrepancy is due to a reschedule effort to include certain changes in scope	•	·.
	been reque period.	•		STAT
	period.	This rescheduling will not have any ad	verse effect	,
	on the over	rall program schedule.		
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		m					
		Task 44	Preacceptance Test	: in Fabricati	on Plant		. •
							,
			Scheduled percenta		etion	0%	
			Actual percentage t	his date		0%	
	·						
	•		No work was sched	uled for this	task for t	he	
		month of June					
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P			· .				
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	Tack AS	Aggantanas I	Pact in Pal	helmita	m1~		· ·	
	1d5K 45					•		
		**			etion			
		Actual perce	ntage this	date		0%		
No. 2	• -	No work was	s schedule	d for this	s task f	or the mo	nth	•
	of June.					,		
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		*						•
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		of June.	Task 45 Scheduled perce Actual perce No work was of June.	Task 45 Acceptance Test in Fa Scheduled percentage Actual percentage this No work was schedule of June.	Task 45 Acceptance Test in Fabrication Scheduled percentage of comple Actual percentage this date No work was scheduled for this of June.	Task 45 Acceptance Test in Fabrication Plant Scheduled percentage of completion Actual percentage this date No work was scheduled for this task if of June.	Task 45 Acceptance Test in Fabrication Plant Scheduled percentage of completion 0% Actual percentage this date 0% No work was scheduled for this task for the mo of June.	Scheduled percentage of completion 0% Actual percentage this date 0% No work was scheduled for this task for the month of June.

Task 46 Acceptance Test after Installation

Scheduled percentage of completion

)%

Actual percentage this date

0%

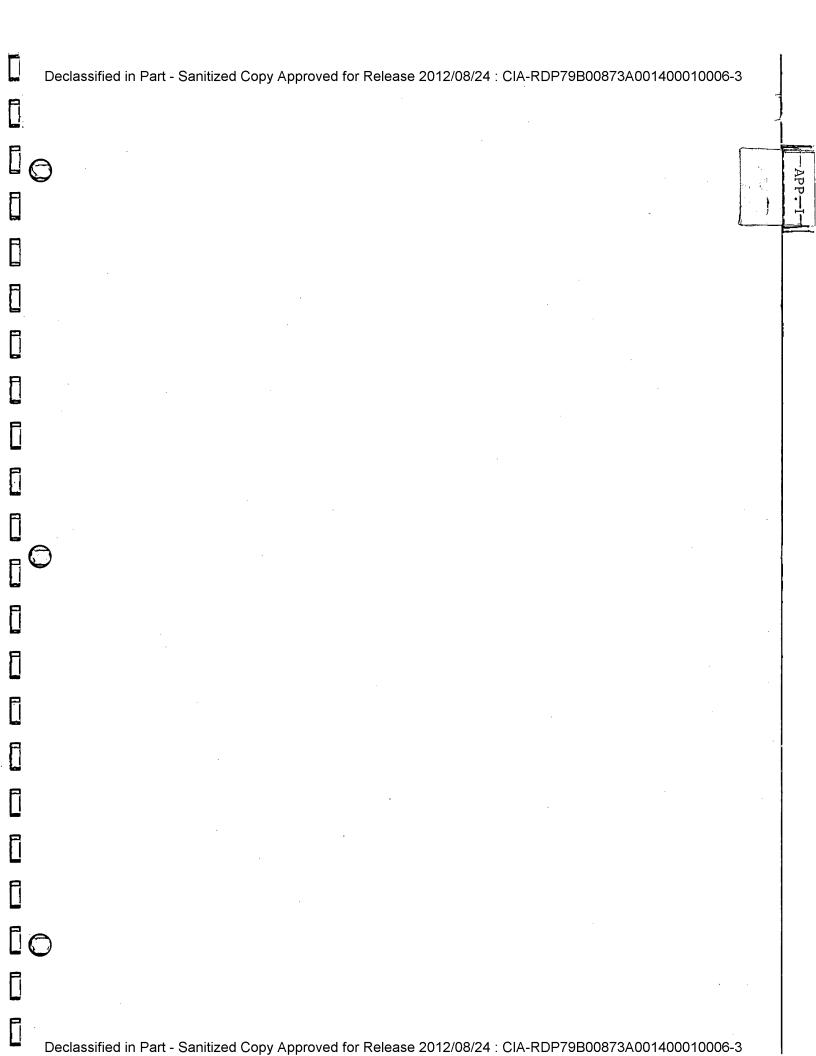
No work was scheduled on this task for the month

of June.

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			•.
Task 47	Instruction Manual	and Drawing Submitt	al ,
			500
	Scheduled percentage		50% 25 %
□ □ / "as buil	The revision of the t" status of the various s	design drawings to cubassemblies of the S	•
is proce	eding according to schedu	le.	
			•
	•		

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		Task 48	Spare Parts	List			
			Scheduled p	percentage of co	ompletion	38%	
			Actual perce	entage this date	•	40%	
			Work is con	tinuing on the c	compilation o	f the	•
		recommended	spares for the	e Stereocompara	itor, both med	chanical	
П		and electronic	components.	The prelimina	ary spares lis	t with	
		parts priced w	as delivered	to the customer	on June 11,	1969.	
		·					
	•						
					·		
P							•

	Declassified in Part -	Sanitized Copy A	approved for Release 2012/08/24 : CIA	-RDP79B008	373A001400010)006-3
				ator Training el to operate manual (approxi- June.		
		Task 49	Operator Training			
	· ·					
P				etion	30%	•
			Actual percentage this date		7 0%	
			Work is continuing on the Oper	ator Traini	na	
		Manual which	•			
	e e	the Stereocom	parator.		•	
_			Scheduled percentage of completion 30% Actual percentage this date 70% Work is continuing on the Operator Training al which will be used in training personnel to operate tereocomparator. A transmittal of the preliminary manual (approxi- y 80% complete) is planned for the end of June.	pproxi-		
		mately 80% co	omplete) is planned for the end o	f June.		
				•		
		·				



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				•
П		TR	RIP REPORT	
		Company Contacted:		STAT
Ц		Contacted by:		
		Contact dates:	Week of June 16, 1969	
	•	Purpose:	Monitoring the Sopelem Optical Contract	STAT
		Persons Contacted:		STAT
	•			
		Representing		STAT
	•			
		Zoom Potentiometer		
П	•			
F		Item 281 on draw	wing E4961B for the 5 cup rotatable	
		•	lem in that the potentiometer is so long	
			of the zoom mount. It will be necessary	
		· ·	o provide for the 5 cup potentiometer.	STAT
			his work. There is a further interference	-
		between the potentiometer and a	tacle so that when the plug is installed	STAT
			the remainder of the assembly. They felt	
		that this could be done without		STAT
<u>_</u>	Ÿ	to locate a smaller potentiomete		STAT
		the frame. A Telex has been se		STAT
	,			

	Potentiemeter Connection Francis	
	Potentiometer Connection Error	÷
	On drawing CO052D those is an amount as all a	
•	On drawing C8052D there is an error shown on the	
	connections for cup 1 of the potentiometer. The positive and negative	
	connections are shown reversed. This is item 283 on drawing 4961B.	
	In general, when finds a situation with problems in the wiring	
	continuity, they will match the wiring throughout the cable and local	
	internal optical bridge wiring by means of color or pin number or some	
	other means available to them.	
	Drawing E4830D	
	This drawing shows four micro switches at each end of	
	the Geneva Drive. The arrangement of the four micro switches is	
	unique in that while there are three switching positions, at the middle	
	of the three positions there are two micro switches which must operate	
•	simultaneously. The pre-limit cam which actuates the first micro	
	switch is 12-1/2 degrees ahead of the final position of the drive,	
	however this cam must keep the micro switch engaged while the drive	
	operates to its terminal point. That is, there cannot be a momentary	
·	make followed by a break; it must be a continuous make condition after	
	actuation. The same situation applies to the two micro switches which	
	next are actuated and again it must apply to the final micro switch which	
	provides for a five to ten degree overrun. This switch also must not	
	open again by a continuation of the drive action. The cam must hold	
	the switch closed even if exceeds the five to ten degrees of the over-	

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•		
	Drawing C8053/2-A	
	On drawing C8053/2-A there are various shielded wires	
	shown. From the slip ring plug out to the main interconnecting receptacle	
	for the optical bridge cables, the slip ring wiring is not shielded even	
	though the mating cable contains shielded wiring elements.	STAT
•	was directed to ignore the shielding requirements in the wiring that	
	they are installing for the slip ring assemblies.	•
	It has been noted by that the slip ring friction	STAT
	was much greater than the five inch ounces specified on the slip ring	
	drawing. The question was whether or not the slip rings were defective	
	or had become defective since receipt	ŜŦÀŦ
	not determined or checked the slip ring torque requirements and, there-	
	fore, there was no information as to the friction at the time the rings	
	were received A Telex was sent to so that they might question	STAT
	the manufacture to determine what was the proper rotation torque for the	
	slip rings. It developed that the manufacturer's specification was	
	85 inch ounces for a normal operating torque. The manufacturer had not	
	determined the torque either.	
	The torque was then determined at and approximately	, STAT
	35 inch ounces was the value found. Since the ultimate torque value	
art.	might well be the 85 inch ounces, or greater, suggested by the manufacturer	
	of the slip rings, it became clear that the drive as presently designed was	
t	not adequate; that the motor was too small and the gearing was not suited	
	to the actual friction. A new gear head motor was ordered and	STAT
	-3-	

•				
	the specifications for this were given to		so that they might	STAT
	change the appropriate parts of the anamo	orph rota	ation assembly. The	
	motor selected was from the Globe catalo	g, type	LL-3 with the gear	s.
	head planetary arrangement of catalog 5A	2357 and	d additionally with	
juk.	a tachometer mounted at the rear of the m	otor. T	he gear head output	
	shaft is 1/4 inch diameter and the gear ra	atio is 3	52.6 to 1. The	
	motor voltage is 12 volts DC with a no lo	ad spee	ed of 10,200 RPM.	
•	The rated torque was 1 ounce inch; this i	s at the	motor end while the	
	breakaway torque was 5.1 ounce inches.	The no	load current was	
	.415 amps; the rated torque was 1.80 amp	os. The	estimated stall	
	current was 4.0 amps. The maximum con	tinuous	torque from the gear	
	box is 145 ounce inches with a nominal e	fficienc	y of 41%. With the	
	voltage and current rating for this new mo	otor, it v	will be possible to	-
	power the system from the existing servo	power a	implifier. Actually,	
	the stall amperage is slightly too high, h	owever	it merely means that	
	the stall torque of the system may not rea	ach the r	maximum design	
	value. In any event, it should be fully a	dequate	to operate the	
	anamorph rotation system.		*	
	Drawing E5387-B			
	A Ledex shutter light contr	rol at a	28 volt value is shown	
	in the drawing E5387B. There was a prob	lem here	e in that in the interests	
	of rapid action, wished to have a 12	volt Led	lex rotary solenoid	STAT
·	installed. The 12 volt Ledex would be dr	iven by	a 24 volt system.	
	There seemed to be considerable confusion	on con c e	erning this particular	
	situation and was requested to c	all in th	ne Ledex distributor which	STAT
	was done.			

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=		
7		•
	The representative had additional catalogs not	
j	available to either and it was learned that there	STAT
7	were 24 volts rotary solenoids with the appropriate torque to handle	
	the work. On this basis a unit was selected and was	STAT
	directed to order a total of four units including two spares.	
7	The appropriate unit is slightly larger than the original	
_!	item. However, it will fit in the space and will operate satisfactorily	
	from the 24 volt supply on the electronic system.	STAT
7	The Ledex rotary solenoid selected for the eye piece	
	shutter assembly is a 25 volt type 2E model 33. This provides twice	sj
	the torque of the model 32 which was originally selected.	STAT
=	ordering a model 33 and will connect it to the 24 volt system.	STAT
<u>-</u>	The allowable duty cycle, at this rating, is about 50% which is ample	
	for the requirements.	STAT
=		
<u>.</u>	Light Level Control & Correlation Tubes	
7	is required to focus and otherwise provide images	STAT
_	for the operation of the image dissector tubes and the photo multiplier	
	tubes. Since does not have available the completed items, it will	STAT
7	be necessary to send to mockups containing the mounting	STAT
	arrangement of the real devices and equipped with small screens that	
	would simulate the surfaces upon which the optical images would be	
7	located. requires these parts in their plant at the beginning	STAT
-	of August.	
7		

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		-
	Drawing D6940C	·
		•
	The micro switch and cam for actuation, as shown on drawing D6940C, is not required by and can be left out of the	STAT
	assembly by	STAT
8		
	Drawing E5387B	٠
П	Drawing E5387B shows no micro switches on the eye	STAT
	piece light control disc. has been able to modify the wiring system	SIAI
	to take care of this situation. A marked print showing the wiring change	STAT
	for the cables has been given	0.7
П	Drawing E6970C	
	On drawing E6970C, all micro switches are shown arranged	
	for momentary contact. requires that the micro switches maintain	STAT
	contact and does not know, at this time, if it is possible to	STAT
	provide for this condition. If is required to do this with electronic	STAT
	logic, it can be done but it will be quite complex, costly and taking a	STAT
	lot of space. The matter is presently being investigated	01711
	Drawing E7220C	
	Diawing L/2200	
	Drawing E7220C shows that has removed the	STAT
F	micro switches from the assembly. The cable drawing C8048A does	STAT
	not show this situation and, therefore, will have to be revised to be	
	compatible with the assembly.	STAT
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		,
	Drawing E7470D	
.*	In drawing E7470D, the items shown as 160 and 178	
	indicate a plug receptacle with only 1 pin. requires at least 3	STAT
	wires to this sub assembly and to accommodate this, the receptacle	
	must be MS 3102A-10 SL 3S. The proper plug and socket must be	
	procured by and the plug will have to be fixed to a new cable	STAT
	A new bracket must be fabricated to accommodate	STAT
	the receptacle. The drawing specifications for the cable system will	
	be sent who will make up a new cable drawing.	STAT
	Drawing E7469D	
	Drawing E7469D shows momentary contact micro	
	switch actuators. These will have to be changed to actuators that	
	maintain the contact of the micro switch once the micro switch has been	
	actuated. This is a similar situation to that described in the above	:
· :	earlier items.	
• .		
•	Drawing E7539C	
•		
	Drawing E7539C shows two driving motor systems and	
	several sets of micro switches. will have to make a cable drawing	STAT
	and send the new cable and part	STAT
		·
		-
	\cdot	

Drawing E7540C There is a further problem of cables and plugs must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparator. will hold back one of the cable end sockets and will manufacture the cable before sending it on . The other plugs, etc.; will be send directly The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile, must calibrate the light filter wheel and suggested that they can do this by the use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered . STAT for delivery by about the middle of July and can install them . STAT and then will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final sop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,	∎ Santa S		44	enset (
There is a further problem of cables and plugs must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparatorwill hold back one of the cable end sockets andwill manufacture the cable before STAT sending it on The other plugs, etc.; will be send directly STAT to The other plugs, etc.; will be send directly STAT Drawing E7639C The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile must calibrate STAT the light filter wheel and suggested that they can do this by the STAT use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered STAT for delivery by about the middle of July and can install them STAT and then will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final stop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,	Declassified in Pa	rt - Sanitized Copy Approved for I	Release 2012/08/24	1 : CIA-RDP79B0	00873A0014000100	06-3
There is a further problem of cables and plugs must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparatorwill hold back one of the cable end sockets andwill manufacture the cable before STAT sending it on The other plugs, etc.; will be send directly STAT to The other plugs, etc.; will be send directly STAT Drawing E7639C The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile must calibrate STAT the light filter wheel and suggested that they can do this by the STAT use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered STAT for delivery by about the middle of July and can install them STAT and then will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final stop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			14 1
There is a further problem of cables and plugs must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparatorwill hold back one of the cable end sockets andwill manufacture the cable before STAT sending it on The other plugs, etc.; will be send directly STAT to The other plugs, etc.; will be send directly STAT Drawing E7639C The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile must calibrate STAT the light filter wheel and suggested that they can do this by the STAT use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered STAT for delivery by about the middle of July and can install them STAT and then will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final stop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,						
There is a further problem of cables and plugs must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparatorwill hold back one of the cable end sockets andwill manufacture the cable before STAT sending it on The other plugs, etc.; will be send directly STAT to The other plugs, etc.; will be send directly STAT Drawing E7639C The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile must calibrate STAT the light filter wheel and suggested that they can do this by the STAT use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered STAT for delivery by about the middle of July and can install them STAT and then will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final stop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,	1					# # .59
There is a further problem of cables and plugs must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparatorwill hold back one of the cable end sockets andwill manufacture the cable before STAT sending it on The other plugs, etc.; will be send directly STAT to The other plugs, etc.; will be send directly STAT Drawing E7639C The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile must calibrate STAT the light filter wheel and suggested that they can do this by the STAT use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered STAT for delivery by about the middle of July and can install them STAT and then will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final stop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,						
must order two new plugs and sockets; this is, of course, times two for both sides of the Stereocomparator. will hold back one of the cable end sockets and will manufacture the cable before STAT sending it on . The other plugs, etc., will be send directly STAT to STAT Drawing E7639C The special function potentiometer for the light filter wheel is at least 3 months away. Meanwhile, must calibrate STAT the light filter wheel and suggested that they can do this by the Use of a linear potentiometer and plot the resulting graph for their own purposes. Linear potentiometers will, therefore, be ordered STAT and then will have to exchange them later for the final potentiometers. STAT will have to exchange them later for the final potentiometers. STAT Drawing E7639C Drawing E7639C shows that there are pre-limit micro switches; that is an initial micro switch which is actuated to slow down the servo motor system prior to the final stop load micro switch actuation. In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,		Drawing E7540C				
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In the case of the drawing in question, the pre-limit switch is not necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,		switches; that is an initia	l micro switch w	hich is actuat	ed to slow down	1
necessary because the servo system does not require it. Therefore, there will be no wiring for micro switch number one. This is ture, also,		the servo motor system pri	ior to the final s	top load micro	switch actuation	n.
there will be no wiring for micro switch number one. This is ture, also,		In the case of the drawing	in question, the	e pre-limit sw	itch is not	
		necessary because the ser	rvo system does	not require it	. Therefore,	
-8-		there will be no wiring for	micro switch nu	imber one. Th	is is ture, also,	
			-8-			· · · · · · · · · · · · · · · · · · ·

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7	
	for the green filter and the diaphragm assemblies in the objective
	switching modes of the assemblies. That is, the switching modes
7	are operated by on off motors rather than controlled servo motors.
, ,	
	Potentiometer Shafts
7	en de la companya de La companya de la co
<u>.</u>	All potentiometer shafts, with the exception of the
	10 turn potentiometers, will be of 1/4 inch diameter instead of the
7	1/8 inch diameter as shown on the drawings. The 10 turn
= =	potentiometers will be 1/8 diameter and these are, therefore, correct
	as shown by the drawings. is going to change all STA
	their mating parts to accommodate to the 1/4 inch diameter potentiometer:
- -	shafts.
	Drawing E7750C
7	
<u>-</u>	Drawing E7750C shows there must be four limit switches
	for each side. In this case, the pre-limit, or number one micro switch
7	which is the slowing down lead micro switch, is followed by a pair
	of micro switches actuated together at the normal shut off point of the assembly and then a final safety shut off micro switch actuation of
	this cuts off the system and manual return to the operating position is
7	required. Note that all respective contact cams must maintain contact
=	with the micro switches once the micro switch activation has been
	initiated.
	miniateu.
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П	•		
E Fi	<u>(</u>	Completion of Part Fabrication	•
L		has completed all parts of both the glass	STAT
		lenses and the mechanical items.	
		The main zoom assemblies are fully assembled up to	
	;	the supplied gear reducers and certain other supplied parts.	STAT
		must expedite the gear reducers, etc., so that can proceed.	STAT
		No. 1. Cardaman Innon	•
		Main Condenser Lenses	
		The main condenser assemblies are in the same situation	
		as the zooms; that is, has completed all parts and requires	STAT
		the supplied motor, potentiometers and gear reducers so that the	STAT
	,	assembly can continue. This equipment will be expedited	STAT
		Main Condenser Diaphragm	-
			•
	;	The main condenser diaphragm unit also is missing the 10 turn potentiometers, the gearing and motors. must expedite here,	STAT
		also.	
			,
		Objective Lens Switching	
		The objective lens switching unit containing the objective	
		lenses has been largely assembled. The key parts have been tested	,
		-10-	

•	
	including the optical system of objective lenses and it has been found
	that during focusing and switching the axial alignment is maintained
	within 1/4 micron.
,	Objective Lens
	The objective lens optical characteristics have been
	checked with respect to resolution for various field sizes and positions.
	was pleased to report that the sagittal and tangential resolution
	obtained with a standard Air Force resolution target supplied
	gave resolution well within the requirements of the system. This
	applies, or course, to only the resolution data obtained from the
	objective lenses. There was no other optical elements in the viewing
	system during the determination of the resolution characteristics.
	Identifying Materials
	The problem of identifying materials sent to
	still presents a difficult situation In the case of the
	plugs and receptacles and other material recently sent to
	there were no tags on these items and Sopelem has difficulty in under-
	standing which assembly they are for.
	Slip Ring Receptacle
•	The receptacle on the slip ring does not fit the anamorph
	The receptation of the stip this does not it the diameter

•		
	The slip rings were equipped with a female flanged	
	receptacle MS 3102 A28-12S. The cable D6810 is equipped with an	
	MS3106E24-28P plug which does not mate with the slip ring receptacle.	
	Note that on the drawing made by on June 6, 1969,	STA
	item 13 does not match the plug on the cable.	STA
		·
•	This plug on the cable must be replaced and will	STA
	have to send an appropriate plug to will make	STA
	the exchange on the cable. The receptacle end of the cable has	STA
	on it a receptacle with the mark RNK-B23-31SL.	
	Note that there is no identification with respect to the	•
	individual wires of the cable and the motor potentiometers, etc., that	
	will be connecting to the slip rings. It will be necessary for	STA
	to check continuity through the various cables and subwiring	STA
	harness so that slip rings will maintain continuity.	
	<u>Cable D7901</u>	
	cable D7901 on the list of June 6, 1969,	STA
	shows a male plug on one end, NS3106E22-30P. There is no flanged	
	female receptacle that the plug can fit into. Some research is necessary	•
	on the part of to determine whether there is an error in the cable	STAT
	or in the mating part.	

Fabrication Schedule

Many months ago,		provided a fabrication				
chedule for all the mechanical and optical parts. This schedule has						
peen completed and all mechanical and optical parts are completed						
and in storage awaiting assembly. There is some modification work						
out this is relatively minor. On t	out this is relatively minor. On the latest PERT chart there					
are certain stoppages of the assembly work due to changes in the						
micro switch assembly from momentary to maintained contact. In						
addition, there is the problem of non delivery of certain of the motors,						
potentiometers, gear boxes, etc.						

STAT

STAT

STAT

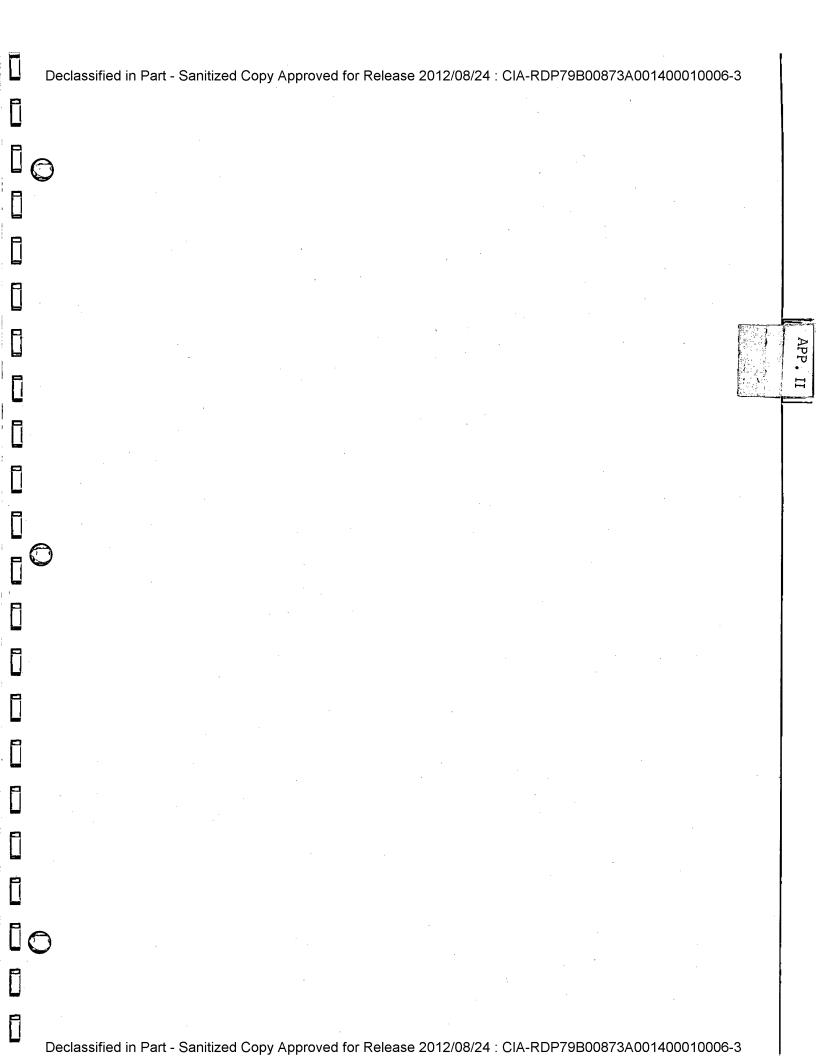
STAT

The assemblies at effected in this manner are #070, #310 and #320. In the case of assembly #230, it is the micro switches only that are effected. Assembly #080 is involved in the new larger drive motor because of the slip ring torque requirement.

Drawing D8650

On drawing D8650, the 5 cup potentiometer cannot be supplied in time to be effectively used We will, therefore, send them suitable linear potentiometers so that they can perform their optical testing.

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3		
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-	Sopelem Schedule of Completion	
	There is one fundamental problem with the existing	• .
	PERT chart in that there is no slack time. Any delays in	STAT
7	securing parts for and any delays due to technical	STAT
	problems at may well delay the job. At this moment, it	STAT
=	appears that an additional month will be required at that is,	STAT
	the equipment will be completed by at the end of 1969	STAT
=	instead of by December 1, 1969.	
_		
-	Component Delivery	STAT
		STAT
-	requires a letter specifying the date when	
3	the individual potentiometers, motors, gear boxes, etc., will be	· .
	available. This is required for proper planning by of their	STAT
3	assembly work.	
⊐		
_	Receiving Record	
	Necetiving Record	1, 1
_ 		0747
3	has processed a receiving record for materials	STAT
7	sent from on June 9, 1969. The receiving record has been brought back	k STAT
	and has been delivered to the shipping department.	STAT
= -		
<u>. </u>		



cogress during reporting per see last layout drawings by one video correlator and the esemblies. The drawings were sembly was completed on the meter panel, the chassis of the test fixture. The relieve changes made during assembly correct a clearance problem.	utside vendors were received on channel selection logic sub- e changed to the Itek format. remaining printed circuit boards, wiring, the image dissector assemblies lated drawings were adjusted to mbly. m between the two boards, the	
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	luzar and the channel coloction	
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	• • • • •	
e chassis (with all boards	inserted) weighs 63 pounds. Each	
		•
theceambly tocte work comple	ted on all beaute before the end	
•	•	
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	are expected to be	
ady in mid-buile.		
	eporting period is approximately	
)%.		
of him of a home	ogic boards were interchanged the assemblies were changed he interwiring diagram revisional with the chassis (with all boards mage Dissector Assembly weign ubassembly tests were compled for May. However, the start of ayed by the wiring interchange work of introducing simulations the quantitative test slided and the qualitative slides see ady in mid-June.	he chassis (with all boards inserted) weighs 63 pounds. Each mage Dissector Assembly weighs 7 pounds. ubassembly tests were completed on all boards before the end of May. However, the start of preacceptance testing was deayed by the wiring interchange of A5 and A6 mentioned above. he work of introducing simultaneous scale and skew distortions to the quantitative test slides was started. These slides are expected to be eady in mid-June. rogress to the end of this reporting period is approximately

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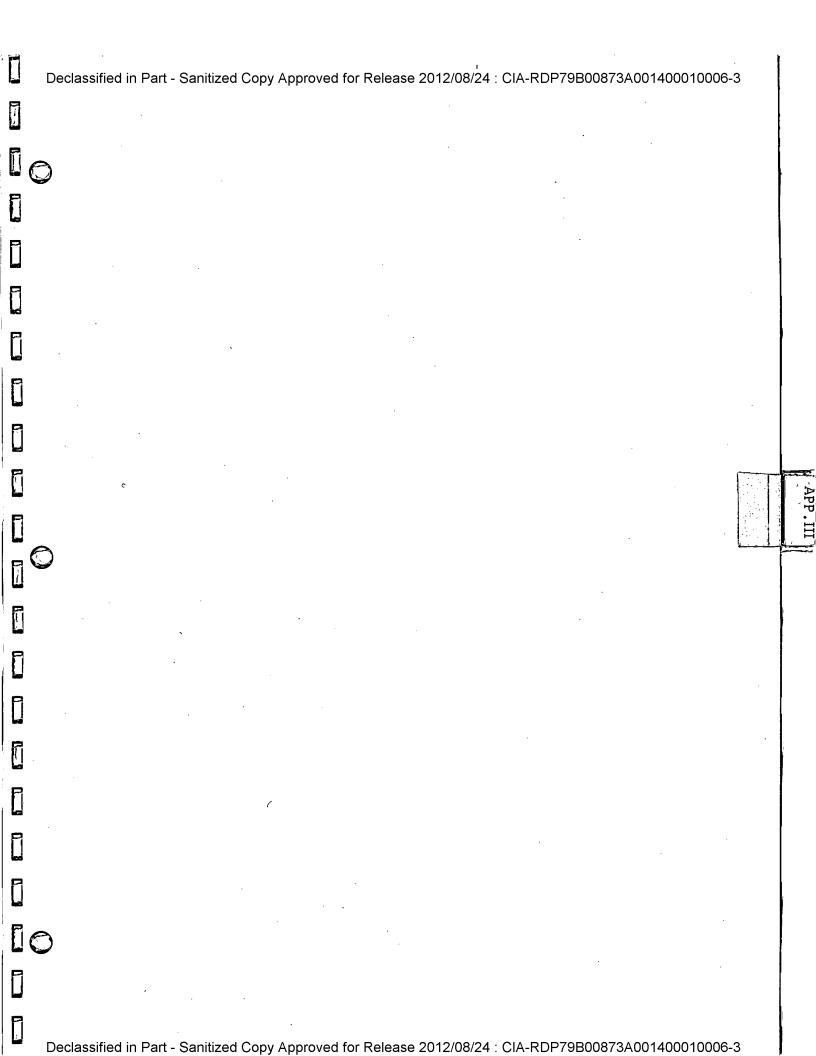
- 2 -

2.0 PLANS FOR NEXT PERIOD

Preacceptance testing begins in June. The present schedule projects the acceptance test for the last week in July. Regrettably, the delays coupled with the necessity for lengthly tests cycles, have made it difficult to accelerate that date as previously expected.

VISIT	ST
On 23 May,	visited
the facility. Available photographic mate	
and selected the representative stereoscop	
to be used for the qualitative acceptance test	•
The completed image analysis equipment and the	meter panel and
test fixture were examined.	•
A discussion of the software submissions follow	wed. In summary
the Operating Manual was satisfactory as it was	
Maintenance Manual should have a troubleshooting	
similar to the section of Report #68-0002-	
4 January 1968; the test procedures related to	
characteristics should be reverted to the lines	
and should also incorporate items in the addeng	
To avoid future question, the recommendations of	
repeated in writing. A reminder of this was la	ater sent by ST
The drawings which were completed since the las	stvisit ST
were available for perusal and were later forwa	arded
	•

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			. •							
				MONT	HLY PRO	OGRESS R	EPORT			
					June	. 196 9		· · · · · · · · · · · · · · · · · · ·		Annual control of the
	•									
		*		al report is				•	-	4 •
			,	eport is pre				Research	Instrument	
		Speci	ification	number DE	31001 (as	modified)	•			
		1.	The co	mputer beca	ame avail	lable on M	lay 9, and	i	has been	STAT
			workin	g 2nd shift	since the	n.			-	
			At the	end of the m	onth su	broutines	**		ŧ	
	,			CVB				. •		
				CVF		•				
			c. 1	MSGIN	÷			٠		
			d. 1	MSGOUT and	1			•		
			e. I	RECALL	:	·		•		
با		-	were c	hecked out a	and docur	nented.				
			•		i •					
			A num	ber of chang	es in the	inter	face logi	c have nec	essitated	STAT
			the rec	oding of sul	proutine	RDOP and	changes	to subrout	ines	. !
			a. 1	EXEC2						
حا			b	ΓRK						
		•	c. I	RDST and			•			
			d. I	RDCR.	!	·.				
	•		At mor	nth's end an	effort wa	ıs underwa	ay to crea	ate a self-l	oading tape	Э
			for the	real time f	oregroun	d system	which car	be used t	o test the	
			interfa	ces and der	nonstrate	the serve	os. Prob	lems with	the D/A	
	•		• •				· ·			
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			·		; ; ;				• .	
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П			converters and a spuri	<u>-</u>		STA
U			to redirect his efforts	to another part of the	program temporarily.	1
	•		A hara in the TY	EODED AN IN commit		
			A bug in the Honeywell TRK, CAMATS, and F		· 	1
	1	• •	on a CDC 6600 compute			
		Stage (found and corrective ac			
=						
			A new subroutine calle	d ASCBIN has been de	signed, coded and	
			checked-out. This sub	proutine decodes binar	y coded decimal info-	
			mation from the ASR-3	5 into floating point b	ina r y.	: İ
	٠.		Subroutines CONVRT a	and DATAIN are being	reviewed with a critic	al
			eye towards redesign.		· .	
			the large amount of co			
			· ·		copagate to their satell	ite
			subroutines NOCAM, I	PARMOD, SCANER an	d TBSRCH.	
П	•	-	Because of this pendin	g redesign. I feel that	progress on the project	ct
					re remains at last mon	
			65%.			!
		2.	Next month, the review	w of the non-real time	routines will continue.	
П			The subroutines affect	ed and the amount of t	ime for each follow:	
				Redesign	Checkout	
			a. CONVRT	3 days	2 days	•
: []			b. OATAIN	3 days	3 days	
			c. NOCAM	l day	2 days	
			d. PARMOD	l day	2 days	
5			e. SCANER	l day	2 days	
			f. TBSRCH	1 day	2 days	
-						
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3			The total time involved is 20 working days, or one calendar month.	
7			Also work may be done on an invested by hearing with a life	
<u> </u>			Also, work may be done, on an irregular basis on the real-time program to assist with servo and interface checkouts.	STAT
_		3. 3.	At the and of Mary the much laws of Law (1971)	· · · · · · · · · · · · · · · · · · ·
≠ _		3. 3.	At the end of May the problem of how to filter the crosstalk out of the correlator had not yet been resolved. This has a low priority	· · · · · · · · · · · · · · · · · · ·
_ 		i The	because it is not really clear that crosstalk will even be a problem.	
_ 		4.	Work on the earth-curvature addition to TMAT, the logic to avoid	
			partial derivative blowups, and the "no camera data" alternatives are being deferred during a contract renegotiation. A proposal is	
=			now being revised, and should be transmitted before the end	STAT
7			of June.	
_		5.	It has been orally agreed that will back-charge Informatics	STAT
			for any work-time lost by employees accompanying during the 2nd shift.	STAT
-				
_		6.	It has not been previously mentioned, but it is clear that the contractual delivery data of June 1 is not realizable. This is partly	
			attributable to:	OTAT
			a. The computer was not available to for a period	STAT
٦			of approximately 6 weeks through April and early May; b. The impending redesign of the non-real time portion of the	
≓ `			program;	
-			c. Numerous time-consuming difficulties with the compiler,	
3			assembler, high-speed punch, and high-speed reader.	
 □			Difficulties of this nature are normally anticipated when a	
===			contract is bid; however, these have been extraordinary.	
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										: CTAT
•			is now sc	heduled t	o continu	ie worki	ng at	until		STAT ^T
` •		September	18, 1969	•					•	'
1						•				ī
}	7.	No other u	nresolved	matters	are kno	wn to ex	ist.			ı
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