			Xc:	J. J. Bechard W. M. Curry P. H. Eccleston		
	TON ARMS COM			W. R. Googin D. S. Hardy A. A. Hugick		
Remin. AT		PETERS		F. G. Hart R. J. Sanzo		
"CONFI	NE YOUR LETTER TO	O ONE SUBJECT ONLY"	,	``		
	LIMITED) distribution	Ilion Febr	n, New York Juary 8, 1974		
TO:	W.E	. LEEK				
FRO	<u>м:</u> С.В.	. WORKMAN				
SUB	JECT: TECH	INICAL SERVICES STA (Last Meeting Held Ja	FF MEETINC anuary 28,	G - Feb. 11 1974)		
CUF	RENT STATUS:		· • •	• • •		
N/C	ENGRAVING	. A				
	Model 32	00 "One of a Thousan	nd"			
C 0	All patter MPUTER <u>AIDED I</u>	ns approved and in p	production.			
•	The high		itional and l	nas been used to generate		
· ·		as been installed.				
· · · · · · · · · · · · · · · · · · ·	1.	Uniapt Post-proces A. Eb Tape is rec	ssor ceived and a	ccepted.		
•		B. Richardson Tape is rec and debug	ceived and i	s ready for machine prove-out		
	• •					
	· · · · · · · · · · · · · · · · · · ·					
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COMPUTER AIDED DESIGN (Continued)

- 1. Uniapt Post processor (continued)
 - C. EXUM 01 Ex-Cell-0 10 B-E Work Center
 - The origin and trans problems have been solved. Output from this post-processor is now good. Further changes were found to be necessary after installation of the machine. These are: the cancellation of canned cycles and tool offsets at the beginning of each program, turning the coolant off before each tool change, returning to positioning mode before each tool change, and the output of the tool offset group number after each tool change. A new tape, with the above changes and the addition of full 3-axis contouring and 40 tool offsets, has been received and is awaiting debug.
 - D. Bostomatic Post-processor. Awaiting quote from United Computing.

A tape duplicating and verifying program has been written to allow faster and better tape processing.

A computer program which will calculate machining costs of various metals has been converted to our system and is available.

A meeting with John Breggar to discuss RAMPS (Resource Allocation Multi-Project Scheduling) was held on Nov. 21. Output from RAMPS has been received.

A program to calculate = center of gravity and moments of inertia has been converted and is available for use.

A program to optimally fit a set of data points to a mathematical equation and then plot that equation has been written and developed. A description and user's manual will be written and distributed as time permits.

Gun motion; shooter force, etc. can now be analyzed on our digital computer much the same as any analog computer. If the equations of motion can be written, then a program to print out various displacements, forces, etc, as a function of time can then be developed. This is currently being done for the M/3200 trap and for test lab jack design.

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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The substrate state of the

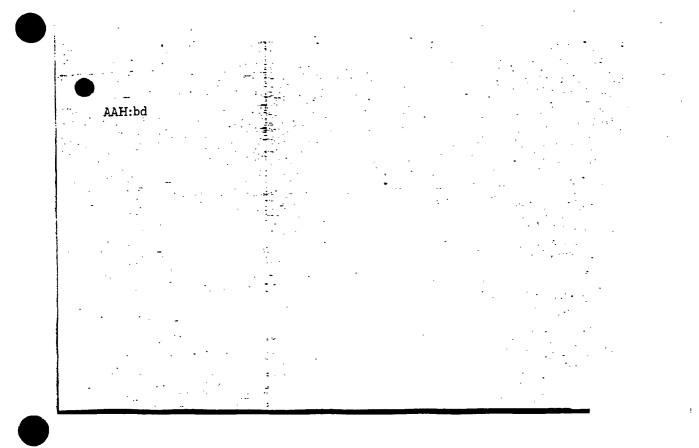
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MEASUREN	MENT / TEST LAB			
		des Chotaun		
	M/3200 Over and Uno			
		- New top tang desig		
	A. C	Gun 19999 - 10,000	rounds - test completed.	
	в. С	Sun 20163 - 10,000 seperation of braze	rounds – test completed at frame dove tail joint).	
	2. Developing l via high spee	.2 Ga. R-W-F target ed system.	ammo internal ballistic data	3
	3 Have request	t for clay bird trajec	tory data.	
-	M/742-X New Desig			
	1. Generated 71 gas system (mm dressure time da (OSC).	ta for chamber and experime	ntal
	M/1100-X New Des:	ign Autoloading Sho	gun .	
	Modification (400 TB with - gun is in o <u>M/1100 Product Imp</u> 1. Tested long	dësign. provement er design magazine	ce, bolt velocity 75/25 endurance, cad plug per request of desi	gn
· · ·	2. Four M/110 report writt	0 – 12 Ga. – 3" Qua en, orifice reduction	ality Audit Test Completed, recommended.	
	3. Current 20 RXP schedu	Ga. R-P target amm led for production s	o inventory at 106,000 round tart UD 1/24.	ls.
	4. Assisting P	roduction with 12 G	a. skeet gun don't blow bac	k.
•			ing block endurance testing	
		.		
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MEASUREMENT / TEST LAB (Continued)

Miscellaneous Lab Activity

- 1. Quality audit finished with M/700 Var. 6mm, 243, and 25-06,
- 2. S.A.A.M.I. gas 4 groove P/U test balance scheduled.
- 3. M/700 264 Win. Mag. barrel erosion test at temporary bind.
- Dry cycle testing M/700 extractors.
- 5. Gun test box (1) scheduled to be fabricated.
- 6. De-bugging M/1100 dry cycle machine.
- 7. A. Hugick out four (4) days for seminar.
- 8. Process of summarizing 12 Ga. high pressure data work.
- 9. Test experimental gas system assembly per C. B. Workman.



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SPECIFICATIONS, TECHNICAL INFORMATION & SERVICE

- 1. Package Label Art Work Program:
 - 870 Deer Guns completed a.
 - 788 with scope completed b.
 - 870 AP Grades c.
 - d. 870 Police/Folding Stock - completed
 - XP-100 e.
- New Owner's Manual for 540-XR. Mechanicals and exploded 2. view 80% complete. Holding for possible changes.
 - 3. 40-XR and 40-XC parts lists completed.
 - 540-XR Standards complete. 4 -
 - 3200 "One of 1000 Skeet" Standards complete. 5.
 - 6. 40-XR and 40-XC Standards to be done.

FGH:bd

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R2505509 **BARBER - PRESALE R 0104521**

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N/C MAINTENANCE

Allen Bradly Eb

Eb machine will be down a week for control modifications, a minor repair.

A-B Co. has agreed to cover on the CRT display unit failure on warrenty.

XLO 108E

The UMAC 7 control is down for electrical repairs to be performed by Sperry-Rand field service

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Positool 900

The positool 900 retrofited control is fully operational.

REPORTS ATTACHED

Model Shop Work Load Numerical Control Work in Progress Plastics Research Lab

C. B. Workman:bd Ilion Research Division Attached