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REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

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Ilion, New York
Sept. 18, 1974

LIMITED DISTRIBUTION

TO: W. E. LEEK
FROM: C. W. STEPHAN
SUBJECT: TECHNICAL SERVICES STAFF MEETING - SEPT. 23, 1974
(Last Meeting Held Sept. 9, 1974)

COMPUTER AIDED DESIGN

Peak pressure readings on the high speed range are now in agreement with oscilloscope readings. In the most recent use of the high speed range, a problem was discovered in the fixed-data input program. The problem was that the sweep time was being recalculated every time any of the fixed-data needed changing, resulting in the sweep time being decremented. The necessary modifications have now been made to the fixed-data input program and the high speed range is running with no problems.

The mylar tape punch has been received and was sent to General Electric for interfacing to the 4020. The punch with interface should be installed approximately October 15, 1974.

The gun-motion program is waiting for empirical data from the test lab. (Shoulder-force, pressure-time, and displacement curves for a heavy-shoulder shooter firing M/870 12 Ga. shotgun with a heavy load).

A program has been written for use with 3200 tang deflection measurements. The program plots the tangs unloaded, calculates, scales and plots the tangs loaded.

Programs Tex2 and Stresscall are being converted to Fortran IV for use in M/660 survival gun investigation.

A program that will control and monitor the 1100 dry cycle machine has been written. Further program development will continue upon installation of necessary hardware by test lab personnel.

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COMPUTER AIDED DESIGN (Continued)

The 2 million word disc for the 4020 has been ordered, delivery is expected approximately January 1, 1975. Work has been started on software modifications necessary for using the new disc. Work will continue as time permits.

UNIAPT AND POST-PROCESSOR STATUS

UDS

United Computing is working on solutions to the system problems we have encountered. These problems include page skipping in the Post-Processors, and automatic program turn-off in the event of a card reader failure.

UNIAPT

Uniapt 2 has been received. Erroneous output has been discovered when using ellipses for drive surfaces. Until a correction is received, Uniapt/1 will be available in the event an error occurs in Uniapt 2. A correction for Uniapt 2 should be received by Sept. 30, 1974.

MILWAUKEE-MATIC POST-PROCESSOR

It was discovered that when the index table is positioned at 180 degrees, the CCLW modifier is ignored by the Post-Processor --the table will always be rotated clockwise. Test data has been sent to United Computing. A correction should be received by October 1, 1974.

RICHARDSON ROUTER POST-PROCESSOR

Errors in this Post-Processor are as follows:

- Will not contour in planes other than the X-Y plane.
- K values being output are incorrect.
- Incorrect depth calculations when using cycle/mill.
- First X-Y departure not being output in same block with cutter compensation right or left code.

All of the above errors have been verbally reported to United Computing. Written error reports will be sent as soon as documentation is complete. Corrections for this Post-Processor should be received by October 1, 1974.

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UNAPT AND POST-PROCESSOR STATUS (Continued)

EX-CELL-O POST-PROCESSOR

At present there are no known errors in this Post-Processor.

BOSTOMATIC POST-PROCESSOR

The specifications for this Post-Processor have been received for proof reading. They are currently being reviewed by all involved personnel. After reviewing, a list of desired changes will be forwarded to United Computing along with the specifications. The specifications should be proof-read and returned by Sept. 23, 1974. Delivery of the Post-Processor should be approximately Oct. 25, 1974.

POSITOOL POST-PROCESSOR

At present there are no known errors in this Post-Processor.

ADAPT AND POST-PROCESSOR

COMPUDYNE POST-PROCESSOR

An error was detected in this Post-Processor in which in certain cases, the points output when contouring are rounded improperly. Since we are beyond the warranty period, Remington will be charged for any work done on this Post-Processor. Apparently, there are two options available for correction. The first option involves approximately 3 man days of work at \$250/day and would be warranted for 90 days. The second option would cost \$200 and would carry no warranty. No work is to be done until a Purchase Order is issued.

BCP:sse

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SPECIFICATIONS, TECHNICAL INFORMATION & SERVICES

1. Models 40XR - 40XC Owner's Manual has been received.
2. Model 540XR Owner's Manual has been received.
3. Alter 3200 Owner's Manual (exploded view and parts list) to latest revision.
4. Wonder Trap "B" Service Manual revised and printed.
5. Remington Logo marking drawings have been altered.
6. Package label mechanicals for:
 - 3200 Magnum 30"
 - 3200 Trap 32"
 - 788 223 Cal.
 - 788 223 Cal. (with scope)
- Completed.
7. Prepare new mechanicals for extra barrel package labels. Requested by Legal Dept. to include new Remington Logo.
8. Assisting W. Warren in competitive arms evaluation report.
9. Prepare supplement parts/price list for all 870 Military special parts requested by Government Sales.
10. Add 223 cal. to 788 parts lists, Standards & Owner's Manual.
11. Prepare 3200 competition parts list - completed.
12. Prepare charts for W. E. Leek.

FGH:sse

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N/C MAINTENANCE

Additional Spares For All N/C Systems:

N/C machine systems spare parts are being ordered at random
with cost savings being a primary consideration.

REPORTS ATTACHED

N/C Status Report

Model Shop Work Load

Numerical Control Work in Progress

WMC:sse
Ilion Research Division
Attached