

## Suggestion Plan

Suggestion Plan data for the month of January 1975 are as follows:

	Current Month	Total Year to Date	Total Last Year to Date
Suggestions received	314	34	15
" in effect	7	7	. 7
" withdrawn	19	19	14
" <u>pending</u>	150	150	102
Cash awards	<b>\$ 2</b> 93	\$ 293	\$ 439
Estimated gross savings Average award per suggestion	\$ 2,628 \$ ±2	\$ 2,628 \$ 42	\$ 8,160 \$ 63

#### Methods Studies

- 1. Economics were completed on the proposal to change the finish on M/552 & M/572 "A" Grade Stocks and Fore Ends from lacquer to R. K. W. This would increase the cost by \$ 19,850 per year.
- 2. An economic evaluation has been completed on M/3200 Stocks and Fore Ends, M/870 "AA" Stocks and Fore Ends, and M/541-S Long Stocks comparing the cost of our present checkering process on (5) Single Spindle N/C machines to the proposed procedd on (1) Multi-Head machine. A gross annual savings of \$78,320 is anticipated with the Multi-Head machine.
- 3. A methods review has been completed on the sanding operation for M/700 left hand Stocks, resulting in a substantial labor savings.
- 4. Three evaluations were made on M/552-572 Stocks and Fore Ends for each year of the 5-Year Forecast comparing the cost of Birch and Walmut wood: First, by processing all from Birch; Second, by processing all from Walmut; Third, by processing the ADL's from Birch and the BDL's from Walmut. All Birch is the most economical and Walmut the most costly.

### The following layouts were completed this month:

- 1. Revised the 3200 Final Assembly Area in Bldg. #50-4-N to provide additional space for Assembly benches.
- 2. Relocated the Wonder, Expert & Bluerock Trap Job from Bldg. 48-2-N to 50-3 adjacent to the Electric Club Trap Job.
- 3. Provided a Layout for the 8th GFM, (2) Lathes and Cutoff Machines in Eldg. 60.
- 4. Provided space in Bldg. 51-3 for 3200 inventory control clerk.
- 5. Re-arranged the office areas in 46-1-S to provide for the Credit Union Office expansion.
- 6. Relocated the XP-100 Assembly from 50-4-N to 84-3 to provide additional space in 50-4 for the Polystyrene Packaging Program.

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## METHODS & STANDARDS FROGRESS REPORT - JANUARY 1975

## Methods Studies (cont'd.)

A comparison of 1974 Shotgun Barrel Forging mandrel costs indicated an \$11,650 improvement over the 1973 level of performance.

Standards were completed for the M/3200 Frame Assembly complete changing from polish and buff to Almco finish. This change resulted in an annual savings of \$17,190.

Cost Improvement Program	Current Month	Year to Date
New items added Anticipated savings	\$ 22 \$ 186,300	22 \$ 186,300
Items closed out Anticipated savings Actual reported savings	16 \$ 178,000 \$ 32,700	16 \$ 178,000 \$ 32,700
Active items being followed Total anticipated savings (All items on Agenda)	204 \$ 2,772,500	
' Last year's total	\$ 2,249,900	

# Cost Improvement Items Anticipated (This is a partial listing of items being worked on and scheduled for completion).

Code No.		Est. Gross Savings	Estimated Completion Date	Return or Investmen
PB-294	Chemical etch matting on Vent Rib Barrels.	\$ 14,300	Mar. '75	39% 24
PB-251	Adhesive Bonded Vent Rib Shotgun Barrel Ass'y.	74,300	Mar.'76	24
WE-61	Provide additional plant well water. (Bal.)	5,900	Feb.'75	21
HD-7	Purchase new Multipress for powder metal parts.	6,600		Ç
PBB-116	M/3200 Frame-build special machine, Oper. #83 & 87.	4,900		16
PBB-121	M/3200 Frame-build special machine, Oper. #290 &	3,800	Mey '75	11
	#300, & Oper. #30 - Frame Sear Block Assembly.			
PL-22	Warehouse re-arrangement in Bldg. 52.	5,200	Apr. '75	. <del>**</del>
PA-125	New Center Fire, Rim Fire Rifle carton with molded inserts.	105,500	Feb.'75	Inf.
PBM-90	M/742-760 Firing Pin - purchase va. manufacture	7,300	Mar.'75	. <del>**</del>
PBM-109	Install auxiliary filter at Barnes Drills. Reclaim additional oil.	4,200	Feb. '75	C
PBB-146	M/3200-make (7) components from formed bar stock.	19,400	June'75	71
PBB-178	M/3200 Ejector-proposed cold headed construction.	10,500	Mar. '75	**
PL-21	Use of storage racks and stock pickers in Warehouse	. 16,100	Apr. '75	67
WE-105	Install new windows in Bldg. 50, 82, 84 and 86. Reduce fuel oil usage.	25,500	Mar. '75	М
PBM-127	M/600-700 Bolt Body - replace special machine.	22,000	Mar.'75	99
Pi-260	M/3200 Fore End - Combine Oper. #40 & #50 on N/C Router.	4,900	Mar. '75	**
PBB-181	New type coolant to improve tool life. (Bal.)	5,700	Mar. '75	**
PBB-124	M/3200 Firing Pin Housing-purchase N/C drilling machine for Oper. #80, 90 & 100 and Tang Connecting Block, Oper. #105.	6,700	Feb. '75	15

# METHODS & STANDARDS PROGRESS REPORT - JANUARY 1975

# Cost Improvement Items-Anticipated (cont'd.)

Code . No.		Est. Gross Savings	Estimated Completion Date	Return o Investme
PL-21	M/1100 design improvements - reduce custom repair costs.	\$ 52,200	Dec. '75	**4%
WE-103	Change from ammonia to nitrogen gas - Eldg. 76 & 80.	5,600	Feb. '75	21
PBB-355	Shotgun Vent Rib Barrels - improve type grinding wheels.	7,600	May 175	**
PE-36	In-plant forging - family Trigger Plates, M/700 Trigger Guard &Floor Plates.	138,200	May '75	32
HD-10	Powder metal - Purchase grinder vs. vendor grind, Part #12819.	62,800	Mar. '75	62
PBM-110	Center Fire Front Sight Ramp -Replace (2) Special machines with (1) Kingsbury machine.	6,600	Dec. '75	. 12
GA-12	System to separate water from soluble oil before burning. Reduced fuel oil usage. (Bal.)	8,500	Nov.'75	23
*PBM-134	M/870 Slide Assembly - Build special machine, Oper. #15 & #20.	20,500	Sept.'75	102
*PBM-129	M/1100 Action Bar Sleeve - Build special machine, Oper. #25.	2,800	Aug. 175	12
	Total	\$ 647,700		

<sup>\* -</sup> New items added this month.

## Incentive Wage Plan

"Off Standard" time under the Measured Performance Flan average s 5.2% for the month of January as compared to 7.0% for the month of December and 7.5% for the month of November.

The Measured Performance Plan variance averaged 3.0% for the month of January, as compared to 3.6% for the month of December and 3.5% for the month of November.

<sup>\*\* -</sup> No Capital investment.

R - Machine Replacement.

C - Increased plant capacity.
M - Plant modernization.

## Operating Cost Improvements

	Gross Annual Savings
Operating Cost Improvements - January  Special purchase M/870 Stock Blanks. One-time savings. \$ 17,500 M/3200 Frame Assembly complete. Improved finish process. 17,200 Methods improvements by M&S during the month. 16,000 Vent Rib Shotgun barrels - Improved sight assembly. 13,700 M/1100 Receiver - Redesign Tool B-38655 and manufacture on plant.	\$ 102,300
Operating Cost Increases - January General Plant Wage Adjustment effective (\$ 1,070,000) December 30, 1974.	(\$ 1,093,500)
Temporary or extra operations to improve quality. (\$ 12,400) Increased Social Security tax base. (\$ 11,100)	
Net Effect - January	(\$ 991,200)
Summary - Year to Date Cost Improvement - 12 Cost Improvement items.	\$ 102,300
Cost Increases Increased Cost - Extra Operations (\$ 12,400) Increased Cost - Higher Social Security tex base. (11,100) Increased Cost - General Plant Wage Adjustment - 12/30. (1,070,000)	(\$ 1,093,500)
Net Effect	(\$ 991,200)

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Operating Cost Irprovements		-7-
Operating Costrurovaments_		oss Annual Savings
Operating Cost Improvements - October.  Improved Labor assignments in Receiver Manufacturing. \$ 64,900  Installed new Bldg. 51 Freight elevator; Improves operating costs.	\$	172,500
H/742-760 Receiver: Oper. #72, Tool #A-64100. Change 15,600 H. S. Steel; to Carbide: Change geometry: Manufacture on		
plant. Methods Improvements by M&S this month.  14,200		* *
Third Ouarter Suggestion System savings.		
Purchase 4th Form Mill Grinder for Cutter Grind; Reduced 9,900 overtime.		
Insulate #6 Fuel Oil Storage Tanks; Reduced usage of fuel 9,800 pre-heating.	٠,	
M/3200 Machining - Improved trucking assignments. 8,800		
M/3200 Frame. Oper. #227; Manufacture Carbide tool #A-41011 4,500 on plant.		
Computer program for Daily Warehouse Inventory Report; Pe- 3,900		
duced Manual Record keeping.  Air Condition N/C Checkering Machine cabinets; Reduced 3,400	•	
electrical maintenance. 3,300 Miscellaneous smaller process improvements. 3,300		
M/3200 Fore End. Oper. #40; Altered fixture; Improved yield. 2,600 Computer Program for Customer Gun Repair Report; Reduced 2,100		
Manual Record keeping. Replace top rather than entire unit of worn Homo-Carb boxes. 1,000		
Operating Cost Increases - October.  Additional Rate Increases - Electricity & Natural Gas. (\$ 261,000)  Temporary or extra operations to improve quality. (\$ 12,200)	<b>(\$</b>	273,200)
Net Effect - October	(\$	100,700)
Summary - Year-to-Date.	:	
Cost Improvements - 121 Cost Improvement Items.	\$	1,419,300
Cost Increases.	(\$	5,017,200)
Increased Cost - Extra Operations. (\$ 118,300)		
Increased Cost - Improved Quality. (31,400)		
Increased Cost - Wood for Stocks and Fore Ends. (1,034,000)		
Increased Cost - Purchased Pre-formed Components. (91,200)		
Increased Cost - Fuel Oil. ( 269,800)		
Increased Cost - Paper Packaging material. (102,500)		
Increased Cost - Anhydrous Ammonia. (18,700)		
Increased Cost - Powder Metal. (15,600)		
Increased Cost - BlueCross/Blue Shield Rates - 2/1. (136,900)		
Increased Cost - Higher Social Security Tax Rates. (32.800) Increased Cost - Improved Pension Plan - 4/11. (551.300)		
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Increased Cost - Steel. (655,500) Increased Cost - Natural Gas and Electricity. (359,000)		
Increased Cost - Depreciation Plant Capacity Projects. (16,700)		
Increased Cost - General Plant Wage Adjustment - 7/1. (1.514,000)		
Increased Cost - Additional (10th) Paid Holiday. (69.500)		
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Net Effect ,	(\$	3,597;900)