TO C. ATTENDED AND STANDARDS PROGRESS REPORT - PEBRUARY 1975

Suggestion Plan

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

•	Current Month	Total Year to Date	Total Last Year to Date
Suggestions received	28	6 2	49
" in effect	10	17	15
" withdrawn	22	L'i	36
" pending	146	146	106
Cash awards	\$ 540	\$ 833	\$ 718
Estimeted gross savings	\$ 5,745	\$ 8,373	\$ 14,920
Average award per suggestion	\$ 54	\$ 49	. \$ 48

Methods Studies

The following layouts were completed this month:

- . 1. Provided a layout for the new 30-ton Receiver Broach in Bldg. 60.
 - 2. Rearranged the 8th GFM layout in Bldg. 60 to provide aisle space for better access to the new proposed chip handling facilities.
 - 3. Completed a layout to provide space in Bldg. 86-2 for (2) Richardson Fore End Shapers.
 - 4. Rearranged Bldg. 76-2, Dept. 62, to provide 4-1/2 bays for Powder Metal Expansion. (Temporary move).
 - Completed a layout of the garage area to provide space for the Trigger Plate Forging machine and related equipment.
 - 6. Rearranged Bldg. 50-3-5W to provide space for the 3200 Burgomester drilling machine.
 - 7. Rearranged Bldg. 48-4-SE to provide space for the 3200 N/C Burgomaster machine.
 - 8. A layout was provided for relocation of the Credit Union and Foreman's offices in Bldg. 46-1.

Method Reviews have been completed on the M/700 Receiver Op. #80 Burr File and Op. #166 Finish File, resulting in a substantial labor savings.

Assistance was given Production and Process Engineering with the development of machine groupings to meet 1976 Production schedules with the minimum of additional equipment and still provide full operator assignments.

A program has been established to determine layout priorities to facilitate and coordinate the future Plant moves with Plant Engineering.

Economics were completed on a new 25-cavity mold for recoil pads for a new vendor as a second source of supply. A gross annual savings of \$37,190 is anticipated for the M/870 Recoil Pads from the new vendor.

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LETHODS AND STANDARDS PROGRESS REPORT - FEBRUARY 1975

A Methods review has been completed on the assembly operations for the M/742 and M/760 Megazine Assembly, resulting in a substantial labor savings.

The 5-Year capacity on the Presses and Copy Lathes for Press Form Stocks has been revised to reflect a change in the mix which increased the Press Form daily requirements. This moved up the need for additional Presses and a copy Lathe from 1977 to 1975.

Operating Cost Improvements			Gross Annual Savings	
M/700 Bdl. Stock - Change from (1) to (3) spindle N/Program to improve N/C machine maintenance costs - DIMProved machine setting assignments - Dept. #14. Program to improve GFM Shotgun Barrel mandrel life. *Negotiated new price for vendor checkering M/700 stock Methods Reviews by M&S during the month. Program to improve yield of M/3200 stocks. Program to improve yield of M/3200 barrels. M/742-760 Receiver, Oper. #89. Redesign Tool #8-549 Program to improve yield of M/3200 major steel compo M/3200 Stock - Additional sanding benches. Received M/742-760 Receiver, Oper. #78. Change tool #A-42211 *Reclaim (120) obsolete bore reamers for use on M/320 Miscellaneous smaller process improvements this month	pept. #53. pcks. pcks. mproved life. ments. shift differential. to standard end mill. bo barrel.		65,200 45,700 15,800 11,700 10,500 9,900 8,800 8,700 6,900 5,800 4,000 2,500 1,900 1,200	
	Total this month	\$	198,600	
* One-time savings.	Total year to date	\$	300,900	
Operating Cost Increases			oss Annual Increases	
Price increase on steel for certain components. Temporery or extra operations.		\$	86,500 12,100	
	Total this month	\$	98,600	
·	Total year to date	\$	1,192,100	
Summery - Year to Date				
Cost Improvements " Increases	\$ 300,900 (<u>1,192,100</u>)			
Net Reduction or (Increase)	(\$ 891,200)			

METHODS AND STANDARDS PROGRESS REPORT - FEBRUARY 1975

Cost Improvement Program	Current Month	Year to Date
New items added Anticipated savings	20 \$ 123,400	42 \$ 309,700
Items closed out Anticipated savings Actual reported savings	22 \$ 186,400 \$ 124,900	38 \$ 364,400 \$ 157,600
Active items being followed Total anticipated savings (All items on Agenda)	202 \$ 2,709,500	
Last year's total	\$ 2,373,400	

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

Code No.	<u>-</u> ,	Est. Gross Savings	Estimated Completion Date	Return c Investme
PB-294	Chemical etch matting on Vent Rib Barrels	\$ 14,300	Mar.'75	39%
PB-251	Adhesive bonded Vent Rib Shotgun Berrel Ass'y.	74,300	Mar. '76	24
WE-61	Provide additional plant well water. (Bal.)	5,900	Mar. '75	21
HD-7	Purchase new Multipress for powder metal parts.	6,600	Mar. '75	C
PBB-116	M/3200 Frame-build special machine, Oper. #83 & 87.	4,900	Mar. '75	16
PBB-121	M/3200 Frame-build special machine, Oper. #290 & #300, & Oper. #30 - Frame Sear Block Assembly.	3,800	May '75	n
PL-22	Warehouse re-arrangement in Bldg. 52.	5,200	Apr. 175	**
PA-125	New Center Fire, Rim Fire Rifle carton with molded inserts.	105,500	Mar. '75	Inf.
PBM-90	M/742-760 Firing Pin - purchase vs. manufacture.	7,300	Mar.'75	**
PBM-109	Install auxiliary filter at Barnes Drills. Reclaim additional oil.	4,200	Mar. 175	C
PBB-146	M/3200-make (5) components from formed bar stock.	19,400	June 175	71
PBB-178	M/3200 Ejector proposed cold headed construction.	10,600	Mar. '75	**
PL-21	Use of storage racks and stock pickers in Warehouse.	16,100	Apr.'75	67
WE-105	Install new windows in Hidg. 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.	9 9
PN-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	Apr.'75	15

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NETHODS & STANDARDS PROGRESS REPORT - FEBRUARY 1975

provement Items Anticipated (cont'd)

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

^{* -} New items added this month.

Incentive Wage Plan

"Off Standard" time under the Measured Performance Plan averages 5.2% for the month of February as compared to 5.2% for the month of January and 7.0% for the month of December.

The Measured Performance Plan variance averaged 2.4% for the month of February, as compared to 3.0% for the month of January and 3.6% for the month of December.

^{** -} No capital investment.

R - Machine Replacement.

C - Increased plant capacity.M - Plant modernization.