

# CPMS Newsletter

## “As the Wrench Turns”

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### Manpower Utilization

The Maintenance Manager is responsible for properly maintaining all the plant equipment with limited resources. Plant management will ask maintenance to justify the number of mechanics employed. CPMS can show you how to determine your manpower requirements and exactly where your maintenance dollar is expended.



Production labor requirements will be reduced as the plant becomes more automated but additional responsibility will be placed on maintenance. As production increases their output the corresponding cost of equipment failure will increase. The more efficiently you convert your raw materials into your products, the more profitable you will become.

As an example, let's say you are running three shifts a day, six days a week, and you have been allocated ten mechanics. You need to be able to show where the man hours and cost were expended and what type of work was performed.

CPMS has three major work categories:

- M Preventive Maintenance
- R Planned Repair
- D Breakdown Repair

The goal is to minimize Breakdown Repair by being proactive with Preventive Maintenance and perform Planned Repair as efficiently as possible.

### How to track your labor

One of our customers required that their mechanics account for ALL of their time every day on their work card. Meals and other breaks, travel time to/from the stock room to get parts, “wash up” time, meetings, cleaning the maintenance shop, and, of course, working on the equipment. Mechanics were forced to “stretch” the time when the total for the week was less than 40 hours.

At another plant the clock started when the mechanic went to the machine with his tool box and included the trips to/from the parts rooms or shop to get necessary parts or additional tools.

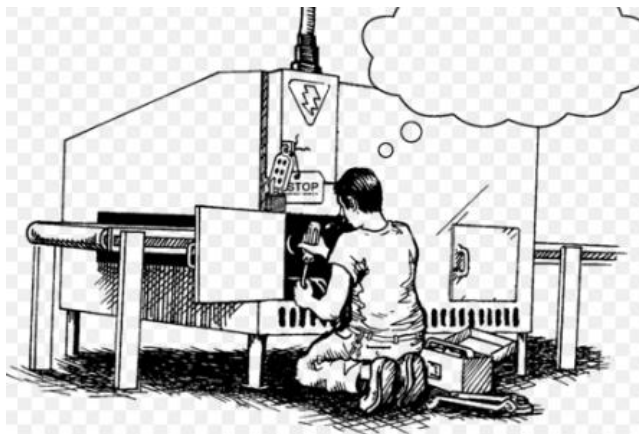
We feel that the REAL time should only be hands-

### INSIDE THIS ISSUE

- 1 Manpower Utilization
- 1 How to track your labor
- 2 And the Winner is...
- 2 CPMS Quiz

on time performed at the equipment. Studies show that actual hands-on time may be as little as three hours a day and therefore one goal is to improve this through better work planning.

In the CPMS Master Schedule, where you list the individual tasks when performing each PM, there is a field where you enter the number of minutes all the PM tasks should take. And, this should be hands-on time. When the mechanic performs each PM and enters how long he was at the machine you can fine tune the estimated time using the actual time.



What reports can you run to determine your manpower utilization?

### Supervisors Schedule

After generating your PM schedule for this week, go to Print, Work Cards, enter the date range, and you will see the number of scheduled minutes and hours for each mechanic. Remember that this is hands-on time at each piece of equipment.

January 23, 2010 2:48 PM		Maintenance Work Schedule				Page 6 of 6		INTERNATION INFO SYS	
		From 08/04/06 To: 08/10/06							
TASK NUMBER	EQUIPMENT	DESCRIPTION	DATE/MECHANIC	SKILL CODES	SCHED MIN	O/T MIN	PR	ST	ACCOUNT NUMBER
M	2-1-126	JAMESBURY-SPONGE	08/09/06	FROEBOL, ISSAC	4	0	2		2-55110
WEEKLY									
M	2-1-130	BADGER-SPONGE WATER	08/09/06	FROEBOL, ISSAC	2	0	2		2-55110
WEEKLY									
M	2-1-290	INGRED-PUMP/PIPE/JECT	08/09/06	FROEBOL, ISSAC	2	0	2		2-55106
WEEKLY									
M	2-1-508	COND BLOWER-NORTH	08/09/06	FROEBOL, ISSAC	15	0	2		2-55213
WEEKLY									
M	2-1-509	COND BLOWER-SOUTH	08/09/06	FROEBOL, ISSAC	15	0	2		2-55213
WEEKLY									
M	2-1-528	MIST REPRESSURE SYS	08/09/06	FROEBOL, ISSAC	2	0	2		2-55108
WEEKLY									
M	2-1-711	PAN CONVEYOR - L4	08/09/06	FROEBOL, ISSAC	11	0	2		2-55215
WEEKLY									
M	2-1-711	PAN CONVEYOR - L4	08/09/06	FROEBOL, ISSAC	31	0	2		2-55215
2 WEEKS									
M	2-1-713	PAN CONVEYOR - L5	08/09/06	FROEBOL, ISSAC	9	0	2		2-55215
WEEKLY									
M	2-1-713	PAN CONVEYOR - L5	08/09/06	FROEBOL, ISSAC	31	0	2		2-55215
2 WEEKS									
M	2-1-715	PAN CONVEYOR - L6	08/09/06	FROEBOL, ISSAC	11	0	2		2-55215
WEEKLY									
M	2-1-715	PAN CONVEYOR - L6	08/09/06	FROEBOL, ISSAC	31	0	2		2-55215
2 WEEKS									
M	2-1-823	BOILER-NORTH	08/09/06	FROEBOL, ISSAC	3	0	2		2-55021
WEEKLY									
SCHEDULED HOURS :					10.1	0.0			

### Work History Summary – Employees

At the end of each week, month, etc., you can see how well the mechanics are doing in completing their work assignments. The report also shows the total cost and hours expended.

January 23, 2010 7:50 PM		WORK HISTORY - Summary				Page 1				INTERNATION INFO SYS				
		From 09/01/00 To: 09/30/00												
SCHEDULED TASKS	HOURS	STND COST	ACTUAL TASKS	HOURS	O/T HRS	STND COST	O/T COST	MISSED	% FINISHED	NOT % DONE				
ANDRADAE, SILVA														
M	Preventive Maintenance	144	102.7	\$2,567.92	126	47.0	0.0	\$752.78	\$0.00	4	2.8	14	9.7	87.5
144	102.7	\$2,567.92	126	47.0	0.0	\$752.78	\$0.00	4	2.8	14	9.7	87.5		
DOWNIES, EDWIN														
D	Breakdown Repair	3	0.6	\$15.00	3	0.6	0.0	\$11.16	\$0.00	0	0.0	0	0.0	100.0
M	Preventive Maintenance	56	30.7	\$766.67	53	17.2	0.0	\$320.54	\$0.00	1	1.8	2	3.6	94.6
59	31.3	\$781.67	56	17.8	0.0	\$331.70	\$0.00	1	1.7	2	3.4	94.9		
HERBERT, WILLIAM														
D	Breakdown Repair	1	1.8	\$36.30	1	1.8	0.0	\$33.73	\$0.00	0	0.0	0	0.0	100.0
M	Preventive Maintenance	109	36.2	\$716.76	106	26.5	0.0	\$487.87	\$0.00	1	0.9	2	1.8	97.2
110	38.0	\$753.06	107	28.3	0.0	\$521.60	\$0.00	1	0.9	2	1.8	97.3		

### And the Winner is...

Christine Moody, from Lewis Bakeries, in Murfreesboro, TN received half credit for her reply.

And the answer is: If a PM is marked with an "X" it will be copied to history as "not done" this week and rescheduled for next week. But, if you could process two weeks at once, the program will find the PM rescheduled in the second week and process it as completed. You don't get a chance to change the status if it wasn't done.

### CPMS Quiz

#### For \$100

If the Supervisors Schedule shows about 20 hours of PM every week for a mechanic and the Work History Summary report for the same mechanic accurately shows the same work was completed in 10 hours, what would explain the difference?

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