

July 11, 1975

TO: Fred Bickel
Jim Carpenter

FROM: A. E. Alpine

SUBJECT: COST REDUCTION ITEMS

COPY TO: W. R. Davis, Lamar Sanders, Cecil Clark, Bill Fleming, Jim Wright,
Wayne Limbaugh, Lynn Roberts, Buddy Swafford, Roy Jackson, Paul Cooper,
W. R. Bond, S. D. Weaver

Listed below are items of cost reduction that you will need to review to see if applicable to your cost reduction program. In the absence of a Plant Industrial Engineer, please assign the overall responsibility for the Cost Reduction Program to your Plant Engineer who can get the preliminary work in progress prior to my plant visit.

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| 1. Reduce lube usage in plant. | 18. Install auto-feed at core drill. |
| 2. Reduce repair labor and material cost. | 19. Investigate methods for coupling handling |
| 3. Reduce coupling mill downtime. | 20. Reduce pipe machine downtime. |
| 4. Increase wet tester production. | 21. Reduce mandrel change time by $\frac{1}{2}$ sec. |
| 5. Decrease wet tester downtime. | 22. Reduce bottom felt change time. |
| 6. Increase coupling Cut-off Production | 23. Reduce top felt change time. |
| 7. Reduce lathe line downtime. | 24. Reduce bottom felt usage. |
| 8. Sub. $\frac{1}{2}$ " Perf. Strapping for $\frac{3}{4}$ ". | 25. Reduce top felt usage. |
| 9. Reduce tool usage - Finish Dept. | 26. Reduce direct labor Mfg. Dept. |
| 10. Reduce packaging lumber. | 27. Reduce direct labor Finish Dept. |
| 11. Mech. method to clean returned lumber. | 28. Reduce material usage Mfg. Dept. |
| 12. Install Capacitors to reduce power cost. | 29. Reduce material usage Finish Dept. |
| 13. Eliminate "Surplus" Roll shorten bottom felt improve felt change time. | 30. Reduce supplies Purchased for Finish Dept. |
| 14. Improve fork truck expense. | 31. Reduce supplies Mfg. Dept. |
| 15. Install Yard Inspector to eliminate shipping errors and reduce cust. complaints. | 32. Reduce absenteeism Mfg. Dept. |
| 16. Reduce Finish Dept. rejects. | 33. Reduce absenteeism Finish Dept. |
| 17. Install cylinder screens with Plant Labor. | 34. Reduce accidents in Mfg. Dept. |
| | 35. Reduce accidents in Finish Dept. |
| | 36. Reduce accidents in Maintenance Dept. |
| | 37. Supervision Training. |
| | 38. Improve plant wide communications. |
| | 39. Reduce telephone costs. |

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40. Install Mech. Pipe handling at 1/4 len. line.
41. Reduce lumber purchase costs.
42. Reclaim returned lumber.
43. Reduce overtime - Finish. Dept.
44. Reduce overtime - Mfg. Dept.
45. Reduce overtime - Maint. Dept.
46. Reduce overtime - Shipping
47. Reduce cylinder change time.
48. Install anvil roll adj. mechanism.
49. Install rubber covered felt rolls.
50. Plastic vacuum box covers to increase felt life.
51. Establish program to audit raw materials.
52. Modify hydrotester heads.
53. Install auto clutch short lathes.
54. Improve operation of AC scrap crusher.
55. Improve production of MOA's.
56. Reduce downtime #2 line change over.
57. Raggle boards 8" sewer.
58. Purchase strapping machine.
59. Install plastic vacuum box top felt.
60. Reduce Office personnel.
61. Stabilize multi-coupling cut-off hoist.
62. Purchase Full bore lathe jaws.
63. Install jib cranes for faster chuck changeout.
64. Install shower tank float valve
65. Modify anvil roll for felt change.
66. Rubber hydro-tester seals.
67. Reduce felt costs.
68. Reduce pipe machine downtime.
69. Investigate Silica suppliers .
70. Unloading labor silica and cement (reduce).
71. Rubber ring storage.
72. Acetic Acid bulk purchase.
73. Installation of Standards on all opr. in Finish Dept.
74. Improve Finish Dept. eff. thru production control, impr. layout, methods and truck service.
75. Reduce demurrage.
76. Control B.O.D. & material variations.
77. Reduce cost of supplies.
78. Reduce overtime.
79. Reduce cost of lubricants.
80. Add "fittings" to central planning board.
81. "Jet split" all includes, MOA's, etc.
82. 'Zero' downtime program.
83. Investigate staplers to replace automatic nailers.
84. Automatic stencil pad to replace hand operation.
85. Stab lancing to replace air lancing.
86. End plugs for pipe and coupling stock.
87. Add water spray pipe to autoclaves.
88. Spray interior of pipe with 'inertol' while in autoclave trays.
89. Provide more clearance on autoclave tray bearings.
90. Install rotary brush to clean-up pipe interiors.
91. Saw rejects into 3'3"s.
92. Saw 12" 200 into PAD's.
93. Automate fittings drill.
94. Set up lathe tool crib.
95. Yard rearrangement.
96. Install OH crane in epoxy room.
97. Station stamp cleaning program.
98. Improve MOA lathe production.
99. Use stapler for pallet repairs.
100. Use of permanent respirators at saws.
101. Blanket order for disposable respirators.
102. Extend life of auto. gaskets with silicone.
103. Nylon banding to secure fittings.
104. Replace autoclave lighting.
105. Finishing line update - Phase I.
106. Use of permanent type respirators.
107. Improve table area at coupling tester.
108. Reduce felt costs.
109. Close up water system.
110. Control and reduce usage of gloves.


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