Manville, NJ.

INDUSTRIAL ENGINEERING DEPARTMENT

JOHNS-MANVILLE

MANVILLE FACTORY

Report No. 440-4-218-A

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Date 11-20-53

SUBJECT:
REPLACE DUST CONTROL EQUIPMENT AT SHINGLE AND TRANSITE FORMING MACHINES
Appropriation Request: 921-IR-0217-A
File: 440-2-242

I PROJECT

It is proposed to replace the dust collection system at the forming machines to protect safety and health of employees.

II PRESENT FACILITIES

One collector was installed in 1930. The other collector and present ductwork was installed in 1938. At that time the average forming rate was 30 Shingle slabs per minute and 30 sheets of Corrugated Transite per hour.

Since that time the Shingle forming rate has gradually increased to approximately 95 per minute per each of the two machines. Formation of Corrugated Transite sheets has increased to 44 per hour. The current dry mix usage is 19.3 tons per hour total for both Shingle forming machines, and 3.2 tons per hour for the Corrugated Press.

The two collectors are cleaned periodically and booster fans have been installed but the dust problem is now beyond the capacity of the system. A summary of present excessive dust counts and technical characteristics of this system are described in C. H. Grote's letter of January 14, 1953 to A. C. Smith.

Commitments have been made on replacement equipment for correcting this problem. However, further study of the problem has shown need for revised facilities. Around-the-clock operation of the Shingle Department makes it necessary to install an automatic continuous type dust collector instead of the standard unit called for in the original proposal. Also because of continuous operations, it will be necessary to erect and install much of the equipment on over-time or at best under difficult conditions. Additional funds will be needed, because of these unanticipated contingencies.

The proposal is to install a "continuous", 11000 sq.ft. collector, to supersede the 5146 sq.ft. collector now used to service the Shingle forming machines. The 5146 sq.ft. collector would then supersede the 3340 sq.ft. collector now used to service the Transite Press.

Sheet metal ductwork would be replaced.

DISTRIBUTION
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PARED BY F. E. Ryder REQUESTED BY P. D. Frost APPROVED See page 3

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III TYPE OF REPORT

This is a project to protect safety and health of employees.

IV ESTIMATED EXPENDITURE FOR PROJECT

GPED project EP-MAN-1303, print 10497-2 .

	Amount Authorized	Committed to 11-1-53	Re-Estimate 11-1-53	Add'l Req'd
(1) Sheet metal, #2 #3 machines	$ 7300.	$ 0.	$ 9700.	
(2) Blowers, installed	1310.	965.	1700.	
(3) Collector, installed	12500.	8491.	15200.	
(4) Blower support platform	1000.	0.	1600.	
(5) Sheet metal, Corr. Press (Dept. 450)	2500.	0.	3300.	
(6) Motors, starters, wiring	1250.	1217.	2400.	
(7) Improve fibre collector	0.	0.	1550.	
(8) Paint entire installation	500.	0.	500.	
Contingency	2636.	0.	0.	
Totals, Appropriation Request	$20996.	$10673.	$35950.	$6954.
Dismantling exp. Ref 0218-A	550.	0.	1500.	950.
Overall Project Totals	$29546.	$10673.	$37450.	$ 7904.

V OTHER INVESTMENTS - None

VI BENEFITS

1 - Improved protection of safety and health would result through dust control for 75 men who operate the two shingle forming machines and the Corrugated Transite Press. These operations are in progress 24 hours per day throughout the work week. Continuous complaints as to dust at the forming machines and nearby will be met in accord with plant management's assurance as to analysis and correction.

2 - Compliance with dust concentration limits for this type exposure as specified by the Industrial Hygiene Department of Travelers Insurance Company will be attained. The actual concentration is more than the 5 million particles per cubic foot allowable. Also, the free silica dust around these machines is between 5% and 15%, or over the 5% maximum allowable. Dust counts are greater than in previous surveys.

VII TIME TO COMPLETE PROJECT

Estimated time to complete project, 6 months.

VIII RECOMMENDATIONS

The contents of dust at the Shingle forming machines are asbestos fibre, silica, cement, slate and limestone, a serious exposure. Dust at the Corrugated Transite press is asbestos fibre, silica and cement, also a serious exposure.

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A disability resulting from this exposure is compensable in the approximate amount of $13,500, for total disability, not including libigation and medical examination costs. Existing New Jersey Workman's Compensation Law is contained in Title 34-15.

Therefore, to avoid costly consequences of continuing with inadequate equipment and to secure benefits of section VI early approval of this project is recommended.

APPROVALS

Approval by the Department Superintendent indicates belief in the improvement set forth and requests the Factory Manager's approval.

Department Superintendent

Approval by the Industrial Engineering Supervisor certifies the savings and benefits set forth are as represented, and that the proposal is sound by all standards which can be applied.

Industrial Engineering Supervisor

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